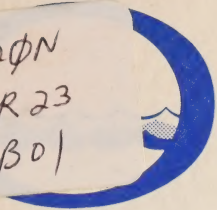




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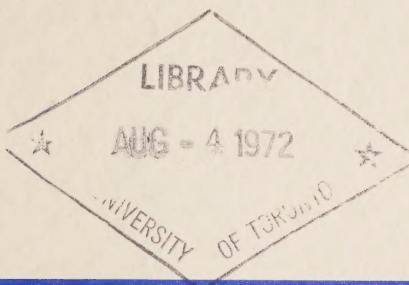


Water management in Ontario

Ontario
Water Resources
Commission

Government
Publications

Water Resources
Bulletin 1-3
General series



NO. 1-3

DATA FOR NORTHERN ONTARIO WATER RESOURCES STUDIES 1970



WATER RESOURCES
BULLETIN 1-3
General series

**DATA FOR
NORTHERN ONTARIO
WATER RESOURCES
STUDIES**

1970

ONTARIO WATER RESOURCES COMMISSION

DIVISION OF WATER RESOURCES

TORONTO

ONTARIO



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ERRATA FOR PREVIOUS BULLETINS

Water Resources Bulletin 1-1 Errata Sheet #2

Page

- 16 Discharge of 243 cfs for Oct. 9, should be 423 cfs.
-

Water Resources Bulletin 1-2 Errata

Page

- 18 Discharges for January are for 1970 and not 1969 as shown.
- 18 Discharge of 149 cfs for May 25, should be 1490 cfs.
- 25 The third and fourth digits of the station numbers should be changed from "03" to "04" e.g. 43-03-001 should be 43-04-001, etc.
- 41 Depth of 126 feet for well 43-05-001-1R should be 60 feet.
- 41 Depth of 60 feet for well 43-05-001-2 should be 126 feet.
- 44 Depth of 209 feet for well 43-05-005R should be 187 feet.

Map

- 2006-4 Severn Basin (47) - Streamflow station 009 should be relocated upstream of Garrett Lake; its location description is "one mile downstream of Missiwaweya Lake, Lat. 53°33'N. Long. 91°03'W."
- Severn Basin (47) - Streamflow station 4CA-3 should be 4CA-4.
- Severn Basin (47) - Streamflow station 4CA-4 should be 4CA-3 and should be relocated at Lat. 52°39'N. Long. 92°32'W.
- Attawapiskat Basin (44) - Streamflow station 4FB-3 should be 4FA-3.

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Water Resources Bulletin 1-3
Data for
Northern Ontario Water Resources Studies
1970

INTRODUCTION

In October, 1965, the Prime Minister of Canada and the Premier of Ontario announced that the Governments of Canada and Ontario had agreed to undertake a series of co-ordinated studies of Ontario's northern water resources and related economic development. Provision was made for the establishment of a Co-ordinating Committee representing the two governments to arrange for the exchange of all information gathered in the studies and to avoid duplication or overlapping of effort by the participating agencies. Most of the work is being undertaken in five large river basins draining to Hudson Bay and James Bay. From northwest to southeast these are the Severn, Winisk, Attawapiskat, Albany and Moose River basins.

The Co-ordinating Committee prepared a statement of objective for the studies to be carried out separately by agencies of the two governments, as follows:

"With respect to waters draining into James Bay and Hudson Bay in Ontario, to assess the quantity and quality of water resources for all purposes; to determine present and future requirements for such waters; and to assess alternative possibilities for the utilization of such waters locally or elsewhere through diversions."

The Government of Ontario delegated its part in the hydrologic and engineering aspects of the studies to the Ontario Water Resources Commission. The OWRC Division of Water Resources assigned the Hydrologic Data Branch and the Surveys and Projects Branch to pursue the studies. Ontario's part in the economic aspects of the studies was delegated to the Applied Economics Branch of the Ontario Department of Economics and Development and upon reorganization of some Ontario government departments, to the Economic Planning Branch of the Department of Treasury.

SCOPE OF BULLETIN

This bulletin is limited to the presentation of data gathered by the Ontario Water Resources Commission during 1970. Tables and maps are used to present the data and information on streamflows, ground-water levels, snow course data, water quality analyses and hydrogeology. A more complete report will be published at the end of the study and will deal in detail with the interpretation of the data obtained and the significance of the various hydrologic factors to the water resources of northern Ontario. Data collected by other agencies are not included in this publication.

METHOD OF SURVEY

The activities of the two branches of the Division of Water Resources working in the Northern Ontario Water Resources Studies are described below.

The Hydrologic Data Branch is engaged in the development of hydrometric networks and the gathering of hydrologic data throughout the Ontario portion of the Hudson Bay-James Bay drainage system. The field work of this branch is concentrated upon the measurement of streamflow, snowfall, ground-water levels and water quality. Field investigations are carried out to select sites for the installation of observation wells and streamflow gauging stations. Recorders are installed for continuous or short term (open water period) measurements. The Branch provides background information for work of the Surveys and Projects Branch and coordinates the establishment of co-operative streamflow gauging stations with the Federal Government.

The Surveys and Projects Branch normally works in one basin each year and evaluates the hydrologic regime and water quality of the northern river basins. Stream gauging sites are investigated for suitability as stations that will provide runoff data for representative drainage basins. The hydrogeologic conditions in the basins are investigated to determine ground-water availability and quality and to assess their effects on runoff regimes. Water quality tests are made continually. The Surveys and Projects Branch designates points at which data should continue to be collected to support its study of water availability.

The parties operated out of Nakina, Sioux Lookout and Big Trout Lake. Chartered aircraft operating out of these bases were used to fly to the remote areas which could not be reached otherwise.

For the year 1970, the Hydrologic Data Branch worked in the Severn, Winisk, Attawapiskat and Albany river basins.

The Surveys and Projects Branch worked in the Albany River basin around Nakina installing observation wells, in the upper sections of the Moose River basin carrying out a preliminary hydro-geological investigation and in the Severn, Winisk, Attawapiskat and Albany river basins on water quality studies.

FIELD PERSONNEL

The field activities were co-ordinated by Mr. R. Pikula. The OWRC personnel engaged in Northern Ontario Water Resources Studies field activities during the year 1970 are listed below:

<u>Hydrologic Data Branch</u>	<u>Surveys and Projects Branch</u>
M. Reid - Engineer - Party Chief	R. Pikula - Engineer - Party Chief
P. Ackermann - Technician	K. Wang - Geologist
J. Coffey - summer student	A. Roy - Scientist
W. Kivlichan - summer student	C. Boodram - Technician
	D. Andrijiw - summer student

EXPLANATION OF DATA PRESENTATION

All data in the tables that follow have been grouped according to the major drainage basins. The following comments explain some of the terms and descriptions used.

Locations

Latitude and longitude were determined from scaling the plotted locations on maps. The descriptions are further elaborated by references to stream features such as confluences, lake outlets, or nearest settlements.

Drainage Areas

The drainage area of a given streamflow station or measuring point is that area which is enclosed by a topographic divide such that all precipitation that falls on the area will drain past the measuring point or station. Areas were determined from the maps of the National Topographic System at a scale of 1: 250,000.

Gauges

Where appropriate, types of gauges and brief descriptions of gathering devices are given.

Discharges

Discharges were computed by use of current meters and were measured either by wading or by suspension from a boat. In both cases, the stream was divided into approximately 20 sections so that the discharge in each section did not exceed ten per cent of the total discharge. The velocity was measured in each section and the discharge calculated. The summation of discharges for all sections was a computation of discharge at that section of the stream.

Velocity measurements were taken at 0.2 and 0.8 of the depth of each section and were averaged to give the velocity of the section. In extremely shallow conditions, velocity was measured at 0.6 of the depth from the water surface. Most of the boat measurements were done by use of a tag line which was used to position the boat at the selected section and to steady the boat in the current.

Snow Courses

Snow courses consisting of at least ten sample points spaced 100 feet apart were laid out in the bush so that typical average snow depths could be measured. The snow courses were sampled by a Mount Rose Sampler which involved the taking of a core of snow in a tube, recording the depth of snow, weighing the core and sampler, and calculating the water equivalent from the weight of the core.

Water Quality

Hach kits were employed to analyse samples of water in the field. Selected samples were sent to the Division of Laboratories of the Commission for testing and confirmation of field results. Conductivity meters were used to measure the electrical conductivity of samples in the field.

OTHER SOURCES OF DATA

It should be noted that the data contained in this report are only those collected by the Ontario Water Resources Commission. Additional data are available from the following agencies.

Streamflow - Inland Waters Branch, Environment Canada,
Ottawa.

Snowcourse - Atmospheric Environment Service,
Downsview, Ontario.

- Ontario Hydro Electric Commission,
Toronto.

Rainfall - Atmospheric Environment Service,
Downsview, Ontario.

- Ontario Department of Lands and Forests,
District Headquarters.

Geology - Ontario Department of Mines and Northern Affairs,
Toronto.

- Geological Survey of Canada, Ottawa.

Chemical Analysis of Water - Ontario Department of Lands
and Forests, Toronto.

Bathymetric Contours of Lakes - Ontario Department of
Lands and Forests, Toronto.

TABLE 1
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-024

LOCATION: Albany River at outlet of Miminiska Lake
51 33'N, 88 33'W

DRAINAGE AREA: 3,360 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						7,390	5,120	7,470	4,450	6,490		
2						7,430	5,240	7,730	4,370	6,520		
3						7,390	5,300	7,930	4,220	6,520		
4						7,390	5,300	8,120	4,180	6,460		
5						7,210	5,210	8,200	4,070	6,350		
6						7,130	5,120	8,160	3,970	6,250		
7						6,950	5,090	8,040	4,020	6,280		
8						6,700	5,150	7,970	3,840	6,280		
9						6,600	5,120	7,730	4,260	6,320		
10						6,630	5,030	7,470	3,020	6,390		
11						6,420	4,890	7,170	3,680	6,520		
12						6,380	4,650	6,810	4,370			
13						6,380	4,600	6,560	5,150			
14						6,380	4,510	6,320	5,940			
15						6,380	4,770	6,630	6,840			
16						6,350	5,060	6,740	7,170			
17						6,350	5,910	6,740	7,280			
18						6,320	6,920	6,740	7,320			
19						6,280	6,950	6,770	7,240			
20						6,110	9,000	6,700	7,170			
21						6,110	10,100	6,420	7,060			
22						5,980	10,400	6,210	7,210			
23					7,280	5,810	10,100	6,110	7,170			
24					7,130	5,810	9,870	6,010	7,100			
25					6,990	5,550	9,450	5,880	7,100			
26					7,100	5,420	9,000	5,680	7,060			
27					6,990	5,330	8,590	5,580	7,000			
28					6,990	5,150	8,080	5,400	6,840			
29					7,100	5,150	7,510	5,540	6,700			
30					7,320	5,060	7,390	5,060	6,700			
31					7,360		7,360	4,630				

Estimated Discharge: Aug. 28-Sept. 14.

TABLE 2
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-017

LOCATION: Brightsand River at Moberley Lake Narrows
49°36'N, 90°34'W

DRAINAGE AREA: 450 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						1,310	785	294	156	558		
2						1,300	751	282	172	539		
3						1,280	724	272	204	527		
4						1,230	713	265		521		
5						1,180	687	253		506		
6						1,140	661	250		500		
7						1,090	635	244		488		
8						1,060	617	237		500		
9						1,040	599	226		527		
10						1,340	592			558		
11						1,560	585			585		
12						1,640	578					
13						1,650	588					
14						1,610	585					
15						1,550	533					
16						1,490	530					
17						1,470	506					
18						1,380	491					
19						1,350	473	184				
20						1,300	457	181				
21						1,240	444	181	764			
22						1,200	432	181	739			
23						1,130	409	175	720			
24						1,060	391	170	698			
25						1,030	366	168	679			
26						991	356	165	661			
27						947	339	165	638			
28						904	332	160	624			
29						861	321	159	592			
30					1,310	827	310	156	575			
31					1,310		308	157				

TABLE 3
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-008

LOCATION: Cat River at outlet of Wesleyan Lake

51°11'N, 91°36'W

DRAINAGE AREA: 2,080 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							2,290	2,560	2,120	2,460		
2						2,110	2,270	2,550	2,110	2,480		
3						2,200	2,260	2,530	2,170	2,480		
4						2,240	2,230	2,510	2,170	2,450		
5						2,290	2,200	2,500	2,150	2,430		
6						2,320	2,190	2,480	2,120	2,430		
7						2,340	2,200	2,460	2,260	2,430		
8						2,350	2,210	2,450	2,440	2,420		
9						2,380	2,190	2,420	2,520	2,480		
10						2,400	2,170	2,410	2,550	2,530		
11						2,400	2,150	2,390	2,560	2,530		
12						2,400	2,200	2,350	2,600	2,540		
13						2,400	2,230	2,330	2,600			
14						2,390	2,290	2,310	2,590			
15						2,390	2,460	2,290	2,580			
16						2,400	2,550	2,290	2,560			
17						2,430	2,610	2,240	2,550			
18						2,460	2,630	2,210	2,530			
19						2,450	2,670	2,220	2,520			
20						2,440	2,680	2,200	2,500			
21						2,440	2,690	2,160	2,500			
22						2,420	2,680	2,220	2,510			
23						2,420	2,670	2,220	2,500			
24						2,430	2,630	2,190	2,490			
25						2,370	2,610	2,180	2,490			
26						2,350	2,600	2,150	2,500			
27						2,340	2,590	2,200	2,500			
28						2,320	2,580	2,200	2,480			
29						2,310	2,560	2,180	2,480			
30						2,290	2,590	2,180	2,460			
31							2,580	2,150				

TABLE 4
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-009

LOCATION: Cheepay River near Albany River
51°27'N, 83°26'W

DRAINAGE AREA: 1,335 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							1,070					
2							1,060					
3							1,140					
4							1,210					
5							1,230					
6							1,210					
7							1,160					
8							1,090					
9							1,010					
10												
11												
12												
13												
14												
15												
16							867					
17												
18									1,280			
19												
20												
21												
22					3,570	1,540						
23						1,460						
24						1,430	N. F.					
25						1,350						
26						1,280						
27						1,180						
28						1,120						
29						1,080						
30						1,080						
31												

N. F. - No flow

TABLE 5
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-013

LOCATION: Kawashkagama River 2,000 feet upstream from O'Sullivan Lake
50°26'N, 87°09'W

DRAINAGE AREA: 765 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		309				1,770	1,170	724	422	805		
2						1,790	1,170	702	411	824		
3						1,790	1,150	669	405	847		
4						1,790	1,130	633	408	856		
5						1,740	1,110	612	405	842		
6						1,690	1,070	598	397	842		
7						1,630	1,050	576	389			
8						1,550	1,030	566	392			
9						1,500	1,000	552	413			
10						1,510	967	538	411			
11			260			1,550	938	525	460			
12						1,570	899	515	499			
13						1,580	875	512	542			
14						1,580	865	508	608			
15			254		1,390	1,560	952	505	652			
16					1,390	1,510	977	508	698			
17			334		1,380	1,520	1,110	505	750			
18					1,340	1,550	1,160	505	773			
19	297				1,330	1,550	1,180	505	791			
20					1,310	1,510	1,190	505	833			
21					1,320	1,490	1,170	499	856			
22					1,340	1,440	1,130	487	870			
23					1,360	1,380	1,080	478	865			
24					1,360	1,410	1,020	472	851			
25					1,380	1,340	982	466	837			
26					1,480	1,300	942	460	828			
27					1,520	1,260	899	451	824			
28					1,550	1,230	856	445	810			
29					1,580	1,200	810	442	805			
30					1,670	1,150	773	425	810			
31					1,720		750	428				

TABLE 6
STREAMFLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-018

LOCATION: Muswabik River at outlet of Lorenz Lake*
51°32'N, 85°05'W

DRAINAGE AREA: 730 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							361	811	530	2,040		
2							354	753	554	1,890		
3								753	587	1,870		
4								716	554	1,940		
5								628	483	1,880		
6								546	483	1,790		
7								483	546	1,750		
8								462	554	1,740		
9								448	620	1,800		
10								419	820	1,810		
11								393	698			
12								361	880			
13								361	1,020			
14								348	1,200			
15								342	1,410			
16							801	354	1,370			
17							1,110	367	1,440			
18							1,300		1,520			
19							1,520		1,550			
20					2,370		1,630		1,580			
21					2,380		1,710	419	1,580			
22					2,350		1,690	419	1,640			
23					2,310	469	1,610	440	1,740			
24					2,120	672	1,500	462	1,810			
25					2,080	491	1,410	523	1,870			
26					2,240	476	1,330	476	1,940			
27					2,220	426	1,240	546	1,980			
28					1,990	406	1,140	587	2,050			
29						412	1,000	562	2,030			
30						393	919	637	1,940			
31							860	546				

*Formerly described as Muswabik Lake.

TABLE 7
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-020

LOCATION: Opichuan River at Kellow Lake Narrows
51°10'N, 87°46'W

DRAINAGE AREA: 440 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						797	715	641	360	737		
2						797	790	605	348	737		
3						782	790	562	348	752		
4						774	774	513	342	737		
5						746	752	479	336	722		
6						718	730	446	318	707		
7						689	715	446	324	700		
8						660	700	459	342	715		
9						630	670	452	348	797		
10			203			602	641	427	513	888		
11						572	605	402	656			
12						542	576	395	722			
13						515	548	383	782			
14						486	562	377	820			
15						472	663	427	850			
16						459	722	472	865			
17						520	842	486	888			
18						576	957	479	896			
19					752	605	997	479	896			
20					737	612	1,010	466	888			
21	208				730	612	1,010	452	919			
22					715	612	997	452	957			
23					693	626	981	439	950			
24					663	641	950	433	919			
25					670	641	896	427	888			
26					737	641	850	420	858			
27					760	634	804	420	820			
28					767	634	760	414	774			
29					782	648	715	395	752			
30					790	663	685	389	752			
31					804		678	377				

Estimated Discharge: June 5-13, Aug. 23-24.

TABLE 8
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION NUMBER: 43-01-021

LOCATION: Pashkokogan River 1.5 miles downstream from
Pashkokogan Lake 51°02'N, 90°12'W

DRAINAGE AREA: 875 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						1,240	1,210	1,220	1,240	1,590		
2						1,260	1,200	1,210	1,240	1,600		
3						1,280	1,140	1,190	1,250	1,590		
4						1,300	1,140	1,200	1,250	1,560		
5						1,320	1,140	1,200	1,250	1,540		
6						1,330	1,100	1,200	1,260	1,540		
7						1,330	1,090	1,230	1,270	1,560		
8						1,370	1,090	1,210	1,360	1,510		
9						1,370	1,100	1,200	1,390	1,510		
10						1,340	1,070	1,200	1,420	1,620		
11						1,330	1,050	1,190	1,460	1,580		
12						1,350	1,030	1,180	1,450	1,540		
13						1,370	1,050	1,190	1,480			
14						1,370	1,030	1,170	1,510			
15						1,360	1,050	1,180	1,510			
16						1,350	1,110	1,170	1,540			
17							1,110	1,160	1,540			
18						1,350	1,100	1,180	1,550			
19							1,090	1,180	1,540			
20						1,360	1,090	1,180	1,550			
21							1,090	1,150	1,540			
22							1,090	1,170	1,560			
23							1,090	1,200	1,580			
24							1,100	1,210	1,580			
25						1,290	1,100	1,210	1,590			
26						1,270	1,070	1,200	1,620			
27						1,250	1,070	1,220	1,590			
28						1,230	1,060	1,250	1,590			
29						1,220		1,240	1,600			
30					1,190	1,190		1,230	1,570			
31					1,200			1,250				

TABLE 9
STREAM FLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-003

LOCATION: Flanagan River at Northwind Lake Dam
52°49'N, 93°27'W

DRAINAGE AREA: 1,063 sq. miles

GAUGE: Pressure bulb type

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							1,130	935	561	530	770	
2						988	1,200	896	561	514	791	
3						979	1,250	892	556	517	807	
4						998	1,330	883	551	539	836	
5						1,000	1,500	870	547	549	862	
6						1,000	1,670	866	542	542	848	
7						998	1,810	848	537	524	844	
8						1,010	1,860	832	532	524	870	
9						1,010	1,870	816	528	533	870	
10						998	1,860	801	523	542	848	
11						998	1,810	786	518	549	844	
12						979	1,720	770	513	552	840	
13						965	1,640	754	508	536	840	
14						965	1,570	739	504	533	875	
15						974	1,500	723	499	542	892	
16						979	1,450	708	494	552	892	
17						970	1,410	693	489	555	909	
18						965	1,370	677	485	558	926	
19						974	1,350	662	480	572	931	
20						961	1,310	647	475	578	939	
21						965	1,280	631	490	589	926	
22						970	1,250	610	484	600	922	
23						956	1,220	610	496	606	922	
24						965	1,180	603	499	614	965	
25						1,020	1,150	592	493	638	984	
26						1,010	1,120	589	487	631	988	
27						1,010	1,080	572	496	642		
28						1,010	1,050	568	508	675		
29						998	1,020	572	511	706		
30						1,010	984	568	527	722		
31							965	565		750		

Estimated Discharge: July 19-29, Aug. 9-20, Sept. 3-19.

TABLE 10
STREAM FLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-006

LOCATION: Morrison River at Sachigo Lake
53°48'N, 91°50'W

DRAINAGE AREA: 259 sq. miles

GAUGE: Float type - temporary stilling well

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								423	153			
2								400	151			
3								376	151			
4								267	162			
5								350	171			
6								335	182			
7								327	189			
8								314	186			
9								306	186			
10								291	186			
11								281	189			
12								264	189			
13								255	191			
14								248	193			
15								237	198			
16								223	198			
17								223	195			
18								221	193			
19							763	207	193			
20								195	193			
21								191	207			
22						355		184	234			
23						358		177				
24								171				
25								169				
26								164				
27								167				
28								156				
29							495	160				
30							463	158				
31							443	153				

TABLE 11
STREAM FLOW
SEVERN RIVER BASIN
1970

STATION NUMBER: 47-01-009

LOCATION: Schade River one mile downstream from Misiwaweya Lake
53°33'N, 91°09'W

DRAINAGE AREA: 1,170 sq. miles

GAUGE: Pressure bulb type

DAILY DISCHARGE IN CUBIC FEET PER SECOND												
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						2,800	2,990	1,990	825	1,660	1,850	
2						2,800	3,260	1,860	825	1,680	1,810	
3						2,830	3,440	1,750	867	1,600	1,850	
4						2,750	3,720	1,700	1,060	1,620	1,850	
5			217			2,810	3,920	1,660	1,150	1,720	1,850	
6						2,790	4,150	1,600	1,270	1,760	1,850	
7						2,690	4,280	1,560	1,300	1,810	1,900	
8						2,640	4,360	1,510	1,360	1,760	1,940	
9						2,540	4,400	1,470	1,350	1,760	1,990	
10						2,450	4,360	1,380	1,350	1,900	1,990	
11						2,390	4,300	1,350	1,350	1,910	1,940	
12						2,320	4,250	1,290	1,350	1,900	1,850	
13						2,220	4,260	1,230	1,360	1,940	1,810	
14						2,080	4,010	1,190	1,370	1,920	1,760	
15						2,020	3,900	1,160	1,370	1,900	1,850	
16						1,910	3,690	1,120	1,350	1,940	1,780	
17						1,840	3,480	1,110	1,320	1,940		
18						1,710	3,380	1,100	1,280	1,940		
19						1,710	3,280	1,060	1,260	1,960		
20						1,700	3,170	964	1,250	1,940		
21						1,660	3,110	945	1,230	1,940		
22						1,610	3,030	939	1,310	1,940		
23						1,650	2,880	921	1,350	1,940		
24						1,710	2,820	909	1,360	1,920		
25						1,820	2,640	891	1,390	1,920		
26						1,960	2,550	867	1,400	1,940		
27						2,120	2,440	861	1,420	1,920		
28						2,260	2,370	837	1,480	1,940		
29						2,420	2,220	831	1,560	1,920		
30	228					2,470	2,210	831	1,600	1,900		
31							2,080	825		1,850		

TABLE 12
STREAM FLOW
ALBANY RIVER BASIN
1970

STATION				DRAINAGE AREA sq. miles	DISCHARGE	
Name and Description	Number	Lat. N.	Long. W.		Date	cfs
Balkam Creek at Walker's Road (Nakina)	43-01-023	50 11'	86 43'	22	June 25/70	34.3
					July 2/70	28.6
					July 4/70	27.9
					July 6/70	26.6
					July 7/70	24.9
					July 9/70	22.4
					July 11/70	19.4
					July 13/70	19.3
					Aug. 1/70	15.1
Kenogami River below Little Current River	43-01-015	50 58'	84 36'	17,620	Aug. 19/70	10.5
					May 27/70	41,000
					June 23/70	24,300
					June 30/70	18,800
					July 25/70	15,000
					Aug. 23/70	3,940
					Sept. 16/70	30,600

NOTE: All discharges were obtained by the current meter method unless designated by the following subscripts.

- r - automatic stage recorder
- s - staff gauge

TABLE 13
STREAMFLOW
SEVERN RIVER BASIN
1970

STATION				DRAINAGE AREA sq. miles	DISCHARGE	
Name and Description	Number	Lat. N.	Long. W.		Date	cfs
Sachigo River 9 miles downstream from Sachigo Lake	47-01-007	54 05'	92 08'	1,610	May 31/70	2,000
					June 20/70	2,230
Sachigo River 9 miles upstream from Sachigo Lake	47-01-008	53 42'	92 17'	779	May 31/70	1,630
					June 22/70	870
					July 18/70	1,570
					July 29/70	766
					Aug. 21/70	281

NOTE: All discharges were obtained by the current meter method unless designated by the following subscripts.

r - automatic stage recorder
s - staff gauge

TABLE 14

SNOW COURSE DATA
1969/1970 Season

EQUIPMENT: Mount Rose Snow Sampler, 10 point snow course

Basin	Albany	Albany	Albany	Attawapiskat	Attawapiskat	Severn	Winisk
Station Number	43-04-001	43-04-002	44-04-001	44-04-002	47-04-001	46-04-001	
Station Location	Nakina	Ogoki	Attawapiskat	Pickle Lake	Sandy Lake	Winisk	
Elevation	1000	550	20	1450	1000	20	
Latitude N.	50°12'	51°08'	52°56'	51°27'	53°03'	55°16'	
Longitude W.	86°42'	85°58'	82°25'	90°12'	93°15'	85°12'	
Date	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)
November 3/69	13.2	0.4					
November 15/69	11.6	1.1	nil	nil			
November 29/69			10.1	1.9	11.4	0.2	16.9 3.2
December 1/69	13.7	2.3					20.7 3.8
December 13/69			14.3	2.7	19.3	1.9	
December 15/69	15.5	2.9	16.2	3.1	13.1	0.2	20.1 4.1
December 18/69							
December 28/69							
January 1/70			16.9	2.5	18.7	2.2	
January 2/70	17.1	3.9					
January 3/70					17.1	2.2	23.4 4.8
January 11/70							
January 15/70			20.6	3.1	22.6	2.5	
January 18/70	22.2	4.7	23.7	2.9	17.6	2.5	25.8 6.3
January 24/70							
February 1/70	23.0	4.9	25.4	4.3	24.0	3.5	
February 2/70							
February 3/70					18.3	2.8	

TABLE 14 (cont'd)
SNOW COURSE DATA
1969/1970

EQUIPMENT: Mount Rose Snow Sampler, 10 point snow course

Basin	Albany		Albany		Attawapiskat		Attawapiskat		Seyern		Winisk	
Station Number	43-04-001		43-04-002		44-04-001		44-04-002		47-04-001		46-04-001	
Station Location	Nakina		Ogoki		Attawapiskat		Pickle Lake		Sandy Lake		Winisk	
Elevation	1000		550		20		1450		1000		20	
Latitude N.	50°12'		51°08'		52°56'		51°27'		53°03'		55°16'	
Longitude W.	86°42'		85°58'		82°25'		90°12'		93°15'		85°12'	
Date	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)	Snow Depth (in.)	Water Equiv. (in.)
February 8/70	23.6	4.9	24.9	5.1	22.8	4.1			18.2	3.0	26.7	6.5
February 15/70							25.3	4.6				
February 16/70											29.5	7.5
February 22/70			27.4	4.9	23.8	4.4	25.6	5.1	21.7	3.9	31.1	8.0
March 1/70	26.4	5.4										
March 2/70												
March 8/70			33.8	6.2	25.3	6.1	28.7	5.7	22.9	3.9		
March 15/70	26.8	5.6										
March 16/70												
March 22/70												
April 1/70	23.6	4.7	31.7	5.5	22.5	5.5	25.1	4.7			31.4	9.7
April 2/70												
April 6/70												
April 14/70												
April 15/70	19.8	4.4			17.8	7.5	25.1	6.4			32.3	8.5
April 20/70												
April 29/70							6.4	2.8			30.6	8.2
May 1/70	11.8	3.6			1.8	0.2						
May 15/70	nil	nil			nil	nil						

TABLE 15
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°49'	Hwy. 643, 1.5 miles west of Hwy. 584, Nakina.	43-05- 014-4	0-3 3-10 10-15 15-35 35-40 40-55 55-60 60-75 75-77 77-90 90-91.5 91.5-93.5	Fine brown sand and silt. Coarse grey sand and gravel. Very coarse grey sand. Medium to coarse grey sand. Coarse grey sand and gravel. Medium grey sand and gravel. Medium grey sand. Fine grey sand. Very fine grey sand and silt. Tight blue clay. Coarse grey sand and hard boulders. Very hard grey boulders.
		see above	43-05- 014-1	27	see above
		see above	43-05- 014-3	46	see above
		see above	43-05- 014-2	93.5	see above

TABLE 16
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°50'	Fleming Lake Road west of Hwy. 643.	43-05-015-3	0-0.2 0.2-2 2-24 24-52 52-70 70-89 89-91.5 91.5-95	Organic. Fine to medium brown sand with clay. Sand and gravel, stratified. Very fine to coarse grey sand with silt. Very fine grey sand with silt and streaks of clay. Sticky blue clay. Medium to coarse dirty grey sand. Medium loose grey sand.
		see above	43-05-015-1	25	see above
		see above	43-05-015-2	45	see above

TABLE 17
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°10'	86°51'	Hwy. 643, 2.25 miles west of Hwy. 584.	43-05- 016-3	0-1 1-35 35-40 40-44 44-55 55-66.3 66.3-68.3	Fine brown sand. Fine to medium grey sand with gravel and silt. Very fine to medium grey sand. Very fine grey sand with silt. Blue silt with clay. Tight blue clay. Coarse grey sand with hard boulders.
		see above	43-05- 016-1	27	see above
		see above	43-05- 016-2	45	see above

TABLE 18
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°12'	86°42'	Cordingley Road at Balkam Creek Nakina.	43-05- 017-2	0-5 5-25 25-28 28-29 29-30	Very fine grey sand with silt and clay. Fine grey sand and silt. Grey silt with fine to coarse gravel. Grey boulders with coarse gravel. Grey boulders.
		see above	43-05- 017-1	15	see above

TABLE 19
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°12'	86°40'	Cordingley Road 1.75 miles north of Nakina.	43-05-018	0-5 5-10 10-15 15-25 25-30 30-40 40-45 45-50	Brown clay with fine sand. Fine grey sand. Fine grey sand with silt. Fine grey sand. Fine grey sand with silt. Grey silt. Grey silt with fine sand. Coarse grey sand and boulders.

TABLE 20
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°13'	86°42'	Gravel pit west of Cordingley Road.	43-05-019	0-2 2-3 3-8 8-17 17-52 52-65 65-72 72-75 75-80	Medium to coarse brown sand. Hard grey boulders. Coarse grey sand with gravel and boulders. Coarse grey sand and gravel. Fine to coarse grey sand with gravel. Fine to coarse grey sand with gravel and boulders. Fine to coarse grey sand and gravel. Coarse grey sand with gravel and boulders. Medium to coarse grey sand with gravel.

TABLE 21
OBSERVATION WELL LOGS
ALBANY RIVER BASIN

LOCATION			Well No.	Depth Below Surface (feet)	DESCRIPTION
Latitude North	Longitude West	Field Location			
50°11'	86°42'	North of OWRC warehouse - Nakina.	43-05- 020	0-3 3-4.5 4.5-6 6-7	Black fill with gravel. Grey silt with fine sand. Coarse grey sand and gravel. Coarse grey sand, bedrock.

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

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TABLE 22

Observation Well No.: 43-05-001-1R
Location: Anaconda Road at Kowkash Road, 50°20'N.; 87°05'W.
Elevation: 998.92' (ground surface assuming elevation of bench mark is 1000 ft.)
Type: Slotted pipe 2" I. D.
Aquifer or Geological Material: Silt and clay
Depth: 60 feet
Recording Commenced: June 20, 1969
Measuring Point: Top of casing (2.92 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.22	27.30				27.81		26.85	27.03	27.05	26.64	26.43
2	27.22	27.30				27.83		26.84	27.03	27.01	26.64	26.43
3	27.22					27.85		26.83	27.02	27.01	26.64	26.42
4	27.23					27.88		26.82	27.05	27.03	26.63	26.43
5	27.23					27.89		26.82	27.10	27.03	26.60	26.42
6	27.25					27.91		26.82	27.12	27.02	26.58	26.43
7	27.27					27.92		26.81	27.12	27.02	26.58	26.43
8	27.27					27.93		26.81	27.13	26.99	26.58	26.43
9	27.28					27.96		26.81	27.14	26.96	26.57	26.43
10	27.28					28.02		26.81	27.13	26.95	26.52	26.45
11	27.28					28.05		26.81	27.11	26.95	26.51	26.45
12	27.28					28.05		26.80	27.12	26.95	26.52	26.48
13	27.28					28.06		26.79	27.14	26.94	26.52	26.48
14	27.28					28.06		26.79	27.15	26.94	26.52	26.49
15	27.28					28.09	26.93	26.79	27.15	26.94	26.52	26.55
16	27.28					28.13	26.94	26.80	27.14	26.94	26.51	26.56
17	27.28					28.19	26.94	26.82	27.14	26.90	26.51	26.56
18	27.28					28.18	26.93	26.84	27.14	26.88	26.50	26.56
19	27.28					28.20	26.93	26.83	27.14	26.87	26.48	26.56
20	27.29					28.22	26.92	26.84	27.12	26.85	26.47	26.58
21	27.30					28.23	26.91	26.85	27.10	26.84	26.45	26.59
22	27.30					28.23	26.92	26.86	27.08	26.82	26.45	26.60
23	27.30					28.26	26.93	26.88	27.10	26.81	26.45	26.60
24	27.29					28.31	26.92	26.90	27.11	26.80	26.45	26.61
25	27.29				27.70	28.31	26.92	26.91	27.11	26.78	26.45	26.62
26	27.30				27.75	28.32	26.91	26.95	27.09	26.77	26.44	26.62
27	27.30				27.76	28.31	26.91	26.97	27.09	26.74	26.45	26.65
28	27.30				27.77	28.32	26.89	26.97	27.10	26.67	26.45	26.68
29	27.30				27.77		26.87	26.99	27.07	26.65	26.44	26.70
30	27.30				27.78		26.87	26.99	27.07	26.64	26.44	26.71
31	27.30				27.79		26.86	27.01		26.64		26.72

TABLE 23

Observation Well No.: 43-05-002-1
Location: Anaconda Road near O'Sullivan Lake, 50°25'N.; 87°08'W.
Elevation: 998.36' (ground surface assuming elevation of bench mark is 1000 ft.)
Type: Slotted pipe 2" I. D.
Aquifer or Geological Material: Sand
Depth: 41 feet
Recording Commenced: June 20, 1969
Measuring Point: Top of casing (2.83 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	8.25	June 3	8.21
Feb. 12	8.34	July 1	8.16
Mar. 11	8.49	July 3	8.19
Apr. 8	8.58	July 6	8.19
May 5	8.17	July 30	7.99
May 17	8.30	Nov. 10	7.74
May 24	8.30	Dec. 14	7.24

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 24

Observation Well No.: 43-05-003R
 Location: 18 miles north of Calstock, 50°04'N. ; 84°08'W.
 Elevation: No bench mark
 Type: Slotted pipe 2" I. D.
 Aquifer or Geological Materials: Sand and gravel
 Depth: 120 feet
 Recording Commenced: June 19, 1969
 Measuring Point: Top of casing (3.00 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									80.02	80.09	80.20	80.26
2									80.03	80.09	80.20	80.27
3									80.04	80.09	80.19	80.28
4									80.04	80.10	80.19	80.28
5									80.03	80.11	80.18	80.28
6									80.04	80.13	80.19	80.30
7									80.04	80.13	80.18	80.28
8									80.05	80.13	80.19	80.29
9									80.05	80.13	80.19	80.30
10									80.06	80.14	80.19	80.31
11									80.05	80.14	80.20	80.31
12									80.03	80.13	80.20	80.32
13									80.02	80.14	80.20	80.33
14									80.01	80.14	80.21	80.34
15									80.01	80.14	80.20	80.34
16									80.01	80.13	80.21	80.35
17									80.01	80.13	80.20	80.37
18									80.00	80.13	80.20	80.37
19									80.02	80.13	80.21	80.38
20									80.02	80.15	80.20	80.38
21									80.01	80.15	80.22	80.39
22									80.02	80.15	80.20	80.40
23									80.04	80.15	80.22	80.41
24									80.06	80.17	80.23	80.42
25									80.06	80.17	80.22	80.44
26									80.07	80.17	80.24	80.45
27								79.96	80.07	80.17	80.25	80.47
28								79.96	80.09	80.17	80.25	80.48
29								79.97	80.09	80.19	80.25	80.49
30								79.99	80.10	80.19	80.27	80.49
31								80.01		80.19		80.51

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 25

Observation Well No.: 43-05-004R
 Location: Albany River west of Hat Island, 51°45'N.; 83°55'W.
 Elevation: 299.9' above sea level (ground surface)
 Type: Open end pipe 2 3/8" I. D.
 Aquifer or Geological Materials: Limestone
 Depth: 150 feet
 Recording Commenced: August 3, 1968
 Measuring Point: Top of casing (approximately 3 ft. above ground surface)

Average daily water level below top of casing in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								13.43	14.55	13.27	12.89	13.24
2								13.47	14.57	13.08	12.87	12.89
3								13.59	14.50	12.90	12.91	12.95
4								13.68	14.36	12.96	12.87	13.14
5								13.71	14.42	13.09	12.70	13.15
6								13.81	14.53	13.10	12.65	
7								13.87	14.50	13.05	12.61	
8								13.86	14.39	13.09	12.73	
9								13.92	14.45	13.14	12.82	
10								14.01	14.42	13.05	12.79	
11								14.08	14.23	12.95	12.67	
12								14.09	14.30	13.07	12.81	
13								14.05	14.23	12.90	12.86	
14								14.09	14.20	12.87	12.98	
15								14.12	14.12	12.81	12.98	
16								14.15	13.93	12.87	12.79	
17								14.24	13.75	12.87	12.72	
18								14.34	13.63	12.74	12.82	
19								14.27	13.55	12.83	12.78	
20								14.24	13.50	12.80	12.74	
21								14.31	13.40	12.77	12.74	
22								14.39	13.32	12.79	12.74	
23								14.37	13.27	12.75	12.81	
24								14.43	13.44	12.78	12.82	
25								14.42	13.41	12.81	13.00	
26								14.42	13.36	12.81	13.02	
27								14.51	13.21	12.87	13.11	
28								14.43	13.24	12.92	13.32	
29								14.46	13.33	12.90	13.39	
30								14.52	13.18	12.89	13.10	
31								14.47		12.91		

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 26

Observation Well No.: 43-05-007-1
 Location: Kowkash Road west of Anaconda Road, 50°20'N.; 87°05'W.
 Elevation: 978.32' (ground surface assuming elevation of bench mark is 1000 ft.)
 Type: Slotted pipe 1 1/4" I. D.
 Aquifer or Geological Material: Silt
 Depth: 65 feet
 Recording Commenced: June 20, 1969
 Measuring Point: Top of casing (3.77 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	46.18	June 12/70 - Dec. 31/70 levels affected by testing of well	
Feb. 18	44.50		
Mar. 11	46.29		
Apr. 8	46.43		
May 5	46.62		
May 17	46.87		
May 24	46.65		
June 3	47.12		

TABLE 27

Observation Well No.: 43-05-007-2
 Location: Kowkash Road west of Anaconda Road, 50°20'N.; 87°05'W.
 Elevation: 978.30' (ground surface assuming elevation of bench mark is 1000 ft.)
 Type: Slotted pipe 1 1/4" I. D.
 Aquifer or Geological Material: Sandy till
 Depth: 128 feet
 Recording Commenced: June 20, 1969
 Measuring Point: Top of casing (4.60 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	47.25	July 1	47.67
Feb. 18	48.03	July 3	47.75
Mar. 11	48.30	July 6	47.70
Apr. 8	48.35	July 14	47.73
May 5	48.71	July 30	47.40
May 17	48.09	Nov. 10	47.44
May 24	48.16	Dec. 14	47.61
June 3	48.13		

TABLE 28

Observation Well No.: 43-05-008-1
 Location: Anaconda Road north of Kowkash Road, 50°20'N.; 87°05'W.
 Elevation: 999.82' (ground surface assuming elevation of bench mark is 1000 ft.)
 Type: Slotted pipe 1 1/4" I. D.
 Aquifer or Geological Material: Sand and silt
 Depth: 29 feet
 Recording Commenced: August 18, 1969
 Measuring Point: Top of casing (4.30 ft. above ground level)

Jan. - Dec. /70 Dry

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 29

Observation Well No.: 43-05-008-2
 Location: Anaconda Road north of Kowkash Road, 50°20'N.; 87°05'W.
 Elevation: 1000.04' (ground surface assuming elevation of bench mark is 1000 ft.)
 Type: Slotted pipe 1 1/4" I. D.
 Aquifer or Geological Material: Clay
 Depth: 67 feet
 Recording Commenced: August 18, 1969
 Measuring Point: Top of casing (3.70 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 19	27.20	July 1	27.63
Feb. 18	27.50		
Mar. 11	27.64		
Apr. 8	27.51	July 18 - Dec. 31 levels affected by testing of well	
May 5	28.04		
May 17	27.99		
May 24	27.88		
June 3	27.83		

TABLE 30

Observation Well No.: 43-05-009
 Location: 18 miles north of Calstock, 50°04'N.; 84°08'W.
 Elevation: No bench mark
 Type: Slotted pipe 1 1/4" I. D.
 Aquifer or Geological Material: Gravel
 Depth: 199 feet
 Recording Commenced: June 19, 1969
 Measuring Point: Top of casing (3.50 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Jan. 31	83.68	Aug. 8	84.70
Feb. 28	84.06	Sept. 4	84.98
Mar. 30	84.20	Sept. 30	85.01
May 3	84.88	Oct. 29	81.02
May 31	84.80	Dec. 16	85.15
July 4	83.79		

TABLE 31

Observation Well No.: 43-05-014-1
 Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N; 86°49'W.
 Elevation: 1112.17' above mean sea level (ground surface)
 Type: Sand point 1 1/2" I. D.
 Aquifer or Geological Material: Sand and gravel
 Depth: 27 feet
 Recording Commenced: July 15, 1970
 Measuring Point: Top of casing (3.46 feet above ground level)

Distance to water level from ground surface

Date	Feet	Date	Feet
July 15	10.75	Sept. 11	11.76
July 25	10.79	Sept. 20	11.60
Aug. 1	10.79	Sept. 30	11.66
Aug. 9	11.18	Oct. 8	11.68
Aug. 11	11.10	Dec. 15	7.80
Sept. 3	11.50		

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 32

Observation Well No.: 43-05-014-2P
 Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N.; 86°49'W.
 Elevation: 1111.85' above mean sea level (ground surface)
 Type: Open end pipe 2" I.D.
 Aquifer or Geological Material: Clay
 Depth: 93.5 feet
 Recording Commenced: August 11, 1970
 Measuring Point: Top of casing (4.50 ft. above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Aug. 11	11.44	Sept. 20	10.41
Sept. 3	10.25	Sept. 30	10.10
Sept. 11	10.33	Dec. 15	11.44

TABLE 33

Observation Well No.: 43-05-014-3P
 Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N.; 86°49'W.
 Elevation: 1114.96' above mean sea level (top of casing)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Sand and gravel
 Depth: 46 feet
 Recording Commenced: August 11, 1970
 Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet	Date	Feet
Aug. 11	13.81	Sept. 20	14.50
Sept. 3	14.34	Sept. 30	15.04
Sept. 11	14.40	Dec. 15	15.91

TABLE 34

Observation Well No.: 43-05-014-4
 Location: Hwy. 643 (1.5 miles west of Hwy. 584), 50°10'N.; 86°49'W.
 Elevation: 1116.25' above mean sea level (top of casing)
 Type: Open end pipe 2" I.D.
 Aquifer or Geological Material: Clay
 Depth: 93.5 feet
 Recording Commenced: December 15, 1970
 Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet
Dec. 15	19.37

TABLE 35

Observation Well No.: 43-05-015-2P
 Location: Fleming Lake Road (Nakina area), 50°10'N.; 86°50'W.
 Elevation: 1103.47' above mean sea level (top of casing)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Sand
 Depth: 95 feet
 Recording Commenced: September 30, 1970
 Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet
Sept. 30	29.40

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 36

Observation Well No.: 43-05-015-3P
 Location: Fleming Lake Road (Nakina area), 50°10'N.; 86°50'W.
 Elevation: 1099.65 ' above mean sea level (ground surface)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Silty sand
 Depth: 46 feet
 Recording Commenced: July 15, 1970
 Measuring Point: Top of casing (2.88 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
July 15	2.83	Sept. 11	3.39
July 18	3.21	Sept. 19	3.35
Aug. 12	4.06	Sept. 30	3.82
Sept. 3	3.99	Dec. 15	3.48

TABLE 37

Observation Well No.: 43-05-016-1
 Location: Hwy. 643 (2 1/4 miles west of Hwy. 584), 50°10'N.; 86°51'W.
 Elevation: 1107.81' above mean sea level (ground surface)
 Type: Open end pipe 2" I. D.
 Aquifer or Geological Material: Sand and gravel
 Depth: 25 feet
 Recording Commenced: July 15, 1970
 Measuring Point: Top of casing (3.41 feet above ground surface)

Average daily water level from ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								8.71	9.06	9.15		
2									9.07	9.15		
3									9.07	9.17		
4									9.08	9.18		
5									9.10	9.18		
6									9.10	9.17		
7									9.10			
8									9.12	9.15		
9								8.80	9.12			
10									9.12			
11								8.43	9.13			
12									9.11			
13									9.12			
14									9.11			8.51
15							7.98		9.11			
16									9.10			
17									9.10			
18							8.51		9.09			
19									9.09			
20									9.11			
21									9.11			
22									9.11			
23									9.13			
24									9.13			
25							8.61		9.14			
26									9.14			
27									9.15			
28								9.04	9.16			
29								9.04	9.15			
30								9.04	9.17			
31								9.06				

OBSERVATION WELL DATA
ALBANY RIVER BASIN
1970

TABLE 38

Observation Well No.: 43-05-016-3P
 Location: Hwy. 643 (2 1/4 miles west of Hwy. 584), 50°10'N.; 86°51'W.
 Elevation: 1110.64' above mean sea level (top of casing)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Silty sand
 Depth: 45 feet
 Recording Commenced: July 18, 1970
 Measuring Point: Top of casing

Distance to water level from top of casing

Date	Feet	Date	Feet
July 18	11.25	Sept. 20	12.00
Aug. 11	11.52	Sept. 30	12.00
Sept. 3	11.82	Dec. 14	11.69
Sept. 11	11.93		

TABLE 39

Observation Well No.: 43-05-017-1P
 Location: Cordingley Road at Balkam Creek, 50°12'N.; 86°42'W.
 Elevation: 994.15' above mean sea level (ground surface)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Gravel
 Depth: 30 feet
 Recording Commenced: August 11, 1970
 Measuring Point: Top of casing (3.02 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Aug. 11	0.80	Sept. 20	0.86
Sept. 3	0.05	Sept. 30	0.92
Sept. 11	0.74	Dec. 16	frozen

TABLE 40

Observation Well No.: 43-05-017-2P
 Location: Cordingley Road at Balkam Creek, 50°12'N.; 86°42'W.
 Elevation: 994.12' above mean sea level (ground surface)
 Type: Ceramic piezometer
 Aquifer or Geological Material: Silt
 Depth: 15 feet
 Recording Commenced: September 3, 1970
 Measuring Point: Top of casing (3.04 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Sept. 3	0.05	Sept. 30	0.79
Sept. 11	0.97	Dec. 16	frozen
Sept. 20	0.57		

TABLE 41

Observation Well No.: 43-05-018
 Location: North of Nakina, 50°12'N.; 86°40'W.
 Elevation: 1019.04' above mean sea level (ground surface)
 Type: Open end pipe 2" I.D.
 Aquifer or Geological Material: Sand
 Depth: 49 feet
 Recording Commenced: September 3, 1970
 Measuring Point: Top of casing (3.04 feet above ground surface)

Distance to water level from ground surface

Date	Feet	Date	Feet
Sept. 3	16.83	Sept. 30	16.45
Sept. 11	16.86	Dec. 16	17.17
Sept. 20	15.78		

OBSERVATION WELL DATA
ATTAWAPISKAT RIVER BASIN
1970

TABLE 42

Observation Well No.: 44-05-001
Location: Badesdawa Lake Outlet, 51°51'N.; 89°36'W.
Elevation: 1130.2' (land surface) based on Inland Waters Branch bench mark
Type: Open end pipe 2 3/8" I. D.
Aquifer or Geological Material: Fine and very fine sand with some silt
Depth: 86.5 feet
Recording Commenced: August 23, 1967
Measuring Point: Top of casing (3.00 feet above ground surface)

Average daily water level below ground surface in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									40.79	39.52	39.92	40.40
2									40.81	39.49	39.94	40.45
3									40.83	39.48	39.93	40.52
4									40.87	39.49	39.91	40.59
5									40.91	39.50	39.86	40.65
6									40.96	39.53	39.79	40.71
7									41.00	39.56	39.74	40.76
8									41.04	39.59	39.71	40.80
9									41.04	39.63	39.69	40.84
10									41.01	39.64	39.68	40.89
11									40.91	39.65	39.68	40.93
12									40.70	39.67	39.69	40.97
13									40.52	39.66	39.69	41.01
14									40.36	39.65	39.70	41.05
15									40.22	39.63	39.70	41.09
16									40.09	39.62	39.71	41.13
17									40.00	39.60	39.72	41.17
18									39.93	39.59	39.74	41.21
19									39.89	39.58	39.76	41.25
20									39.86	39.57	39.80	41.28
21								40.57	39.84	39.58	39.85	41.32
22								40.59	39.82	39.59	39.91	41.36
23								40.61	39.82	39.61	39.97	41.39
24								40.63	39.80	39.63	40.02	41.41
25								40.65	39.76	39.67	40.06	41.45
26								40.67	39.71	39.70	40.09	41.48
27								40.69	39.67	39.75	40.16	41.52
28								40.71	39.62	39.79	40.24	41.56
29								40.73	39.59	39.83	40.31	41.59
30								40.75	39.56	39.86	40.36	41.62
31								40.77		39.90		41.65

OBSERVATION WELL DATA
SEVERN RIVER BASIN
1970

TABLE 43

Observation Well No.: 47-05-001R
 Location: Muskrat Dam Lake, 53°21'N.; 90°50'W.
 Elevation: 891.4' above sea level (ground surface)
 Type: Open end pipe 2" I.D.
 Aquifer or Geological Material: Schist
 Depth: 134.2 feet
 Recording Commenced: July 31, 1970
 Measuring Point: Top of casing (approximately 3 feet above ground surface)

Average daily water level below top of casing in feet

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								16.05		12.11	11.03	11.94
2								15.99		12.11	10.96	12.16
3								15.99		12.34	10.73	12.48
4								15.72		12.40	10.51	12.38
5								15.66		12.26	10.41	12.39
6								15.53		12.29	10.53	12.61
7								15.33		12.46	10.65	12.36
8								15.19		12.57	10.75	12.42
9								15.04		12.34	10.72	12.63
10								14.95		12.19	10.83	12.71
11								14.76		12.40	11.01	12.61
12								14.56		12.27	11.11	12.60
13								14.42		12.33	11.28	12.75
14								14.27		12.32	11.20	12.86
15								14.19		12.25	11.06	12.76
16								14.01		12.10	11.25	12.78
17								13.65		12.11	11.36	12.92
18								13.33		12.22	11.25	12.96
19								13.29		11.96	11.40	12.96
20										11.99	11.50	13.04
21										11.82	11.63	13.11
22										11.56	11.69	13.01
23										11.37	11.78	13.02
24										11.26	11.70	12.99
25										11.19	11.44	13.11
26										11.24	11.85	13.16
27										11.25	12.21	13.42
28										11.24	12.13	13.37
29									12.42	11.23	11.88	13.31
30									12.31	11.16	12.19	13.33
31							16.17			11.08		13.33

TABLE 44

CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES ALBANY RIVER BASIN

ALBANY RIVER BASIN

Source	Latitude North	Long into West	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (µg/g)	Specific Conductivity (µmhos/cm at 25°C)	Color (Hazen units)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Boron (B)	Nitrate (NO ₃)	Phosphate (P)	Fluoride (F)	Total	Calcium	Total						
ALBANY RIVER	51°33'	86°33'	June 19	18°			0.10	14	1	1			2	1	0.04	<0.01 ^d 0.45 ^b	0.015		42		43 ^c	125	85 ^c	30 ^c	6 ^c		
			July 20	21°																			89 ^c				
			Aug. 21	20°		3.1	0.20	16	4	1			< 5	1		<0.01 ^d 0.31 ^b	0.056		45		46 ^c	80	85 ^c	30 ^c	5 ^c		
SILVER CREEK	50°11'	86°43'	Sept. 15	12°		2.8	0.15	18	3	1			3	1	0.00	<0.01 ^d 0.36 ^b	0.013		49		48	90	69 ^c	30 ^c	8 ^c		
			June 25	19°		3.9	0.15	32	6	1			5	2	0.05	<0.01 ^d 0.42 ^b	0.013		100		102 ^c	145	109 ^c	5 ^c	5 ^c		
			July 3			3.8	0.10	32	5	1			< 5	2		<0.01 ^d 0.27 ^b	0.026		103		105 ^c	189	10 ^c	29 ^c			
			July 6																			116 ^c		5 ^c	10 ^c		
			July 9																			112 ^c		5 ^c	10 ^c		
CAT RIVER	51°31'	91°35'	July 11																		108 ^c		5 ^c	6 ^c			
			Aug. 19	22°		4.2	0.10	31	7	1			< 5	3		<0.01 ^d 0.11 ^b	0.003		106		120 ^c	190	218 ^c	5 ^c	4 ^c		
			June 2	13°			0.20						5			0.02 ^b 0.39 ^b	0.029							32 ^c			
			June 25	17°		1.8	0.08	9	< 1	1			7	1		0.01 ^d 0.30 ^b	0.012		19		26 ^c	120	50 ^c				
			July 23	22°		2.4	0.15	10	1	1			7	2	0.60	<0.01 ^d 0.56 ^b	0.016		21		26 ^c	85	32 ^c				
CREEPY RIVER	51°27'	83°26'	Aug. 19	20°		2.1	0.30	7	1	1			< 5	< 1		<0.01 ^d 0.30 ^b	0.016		50 ^c		130		250 ^c	1194 ^c			
			Sept. 23	15°		2.2	0.30	8	1	0.5			8	< 1		<0.01 ^d 0.39 ^b	0.013		24			60	40 ^c	15 ^c			
			May 22	9°		1.3	0.80	12	1	1			19	2	0.04	<0.01 ^d 0.63 ^b	0.040		31		34 ^c	85	56 ^c		25 ^c		
SARASWATI RIVER	50°26'	87°09'	June 30	18°		1.2	0.45	17	3	2			< 5	4		<0.01 ^d 0.31 ^b	0.012		49		50 ^c	100	88 ^c	76 ^c	22 ^c		
			Sept. 18	10°		2.8	0.60	19	2	2			8		<0.03	<0.01 ^d 0.12 ^b	0.032		47		60	140	71 ^c				
			May 24	16°			0.20	21	2	2				1		<0.01 ^d 0.55 ^b	0.023		63		68 ^c	115	139 ^c		18 ^c		
SARASWATI RIVER	50°26'	87°09'	June 16	19°			0.15	23	4	1			5	1	0.06	<0.01 ^d 0.47 ^b	0.024		69		72 ^c	110	142 ^c	20 ^c	16 ^c		
			July 27	22°		3.4	0.25	29	3	1			< 5	< 1		<0.01 ^d 0.30 ^b	0.011		79		82 ^c	90	174 ^c	25 ^c	18 ^c		
			Aug. 16	21°		4.1	0.25	26	6	1			< 5	2		<0.01 ^d 0.39 ^b	0.017		83		84 ^c	120	162 ^c	20 ^c	12 ^c		

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.U. = Jackson Trench Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

- In Excess

* - Settled

TABLE 44 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - ALBANY RIVER BASIN

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids	Specific Conductance at 25°C	Color (Pt-Co)	Turbidity
						Silica	Iron	Cadmium	Magnesium	Sodium	Potassium	Bicarbonate	Sulfate	Chloride	Boron	Nitrate	Phosphate	Phenolphthalein	Total	Calcium	Total						
						(SiO ₂)	(Fe)	(Cd)	(Mg)	(Na)	(K)	(HCO ₃)	(SO ₄)	(Cl)	(B)	(NO ₃)	(P)										
WYCKOFF LAKE - bottom	51°45'	80°30'	June 1	13 ^X	7.5	3.6	0.50	-	1	1				7	1	0.06	<0.01 ^g 0.54 ^g	0.041	71		74 ^X	102	151 ^X	20 ^X	15 ^X		
			July 20	12 ^X		3.0	0.10	22	3	1				< 5	1		<0.01 ^g 0.14 ^g	0.009	72			100	143 ^X	18 ^X	5 ^X		
			Aug. 13	12 ^X		6.1	1.55	23	5	1				< 5	2		<0.01 ^g 0.48 ^g	0.021	75			90	150 ^X	30 ^X	10 ^X		
			Sept. 13	13 ^X		3.2	0.20	22	4	0.6				0	1		<0.01 ^g 0.24 ^g	0.013	71			110	136 ^X	10 ^X	10 ^X		
			Oct. 6	9 ^X		2.8	0.20	26	2	0.6				3	1		<0.01 ^g 0.36 ^g	0.029	71			95	141 ^X	10 ^X	7 ^X		
WYCKOFF LAKE - composite	51°45'	80°30'	June 21	14 ^X	7.4	3.7	0.11	21	2	1				-	1	0.03	<0.01 ^g 0.22 ^g	0.034	70		70 ^X	80	149 ^X	10 ^X	5 ^X		
			July 20	19 ^X		2.4	0.10	8	2	1				< 5	< 1		<0.01 ^g 0.30 ^g	0.009	70			90	143 ^X	10 ^X	5 ^X		
			Aug. 13	23 ^X		3.1	0.25	21	4	1				< 5	< 1		<0.01 ^g 0.30 ^g	0.011	72			90	138 ^X	10 ^X	5 ^X		
			Sept. 13	13 ^X		0.20	24	4	0.7				0	1			<0.01 ^g 0.27 ^g	0.011	70			100	138	10 ^X	10 ^X		
			Oct. 6	9 ^X		2.8	0.15	22	3	0.6				0	1		<0.01 ^g 0.37 ^g	0.013	70			95	141 ^X	10 ^X	2 ^X		
WINDOMER RIVER	50°58'	80°36'	May 29	10 ^X		2.4	0.35	18	4	1			6	1	0.03	<0.01 ^g 0.50 ^g	0.025	51		54 ^X	90	96 ^X		23 ^X			
			June 30	19 ^X		2.3	0.30	22	4	1				< 5	2		<0.01 ^g 0.42 ^g	0.040	57		68 ^X	120	122 ^X	60 ^X	22 ^X		
			July 25	23 ^X		2.7	0.25	22	2	1				< 5	1		0.02 ^g 0.35 ^g	0.012	48		61 ^X	100	136 ^X	65 ^X	28 ^X		
			Sept. 16	18 ^X		3.3	0.70	19	3	2				10	1	0.00	<0.01 ^g 0.60 ^g	0.040	47		60	140	68 ^X	130 ^X	25 ^X		
WOODLEY LAKE	49°37'	90°34'	May 29	11 ^X		0.45				0.6			7	1		0.60 ^g 0.33 ^g	0.014	33				35 ^X					
			July 15	18 ^X		6.4	0.33	6	1	1				7	1	<0.03	0.01 ^g 0.39 ^g	0.024	15		24 ^X	35	41 ^X				
			Aug. 19	22 ^X		6.3	0.40	5	3	1				< 5	2		<0.01 ^g 0.22 ^g	0.006	17		20 ^X	25	42 ^X	36 ^X			
			Sept. 21	15 ^X		0.80	4	2	0.8				2	1		0.03 ^g 0.37 ^g	0.015	15		50		70 ^X		23 ^X			
WISWASIE RIVER	51°30'	85°05'	May 20	5 ^X		0.40	14	1	1				7	1	0.04	<0.01 ^g 0.43 ^g	0.020			26 ^X	50	75 ^X					
			Aug. 21	16 ^X		1.4	0.70	21	2	1				< 5	< 1		<0.01 ^g 0.66 ^g	0.020	56		61 ^X	110	111 ^X	90 ^X	30 ^X		
			Sept. 16	10 ^X		1.7	0.65	18	3	1				12	1	0.00	<0.01 ^g 0.56 ^g	0.022	48		56	125	67 ^X	125 ^X	41 ^X		
WISWASIE RIVER	51°10'	87°16'	May 19	7 ^X		0.20	20	2	1				5	1	0.04	0.00 ^g 0.40 ^g	0.020	40		68 ^X	130	76 ^X					
			July 25	22 ^X		2.7	0.05	17	4	1				< 5	1		<0.01 ^g 0.21 ^g	0.004	55		100 ^X	100	108 ^X	10 ^X	9 ^X		
			Sept. 13	14 ^X		3.1	0.15	18	3	1				5	1	<0.03	<0.01 ^g 0.27 ^g	0.011	56		60	100	85 ^X	7 ^X	11 ^X		

* Indicates analyses performed by the Ontario Water Resources Commission Laboratories

** JTU = Jackson Turbidity Unit

4 - Nitrate as N

4 - Total Nitrogen

x - Field Analysis

+ - In Error

* - Settled

TABLE 44 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - ALBANY RIVER BASIN

ALBANY RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (µmhos #125°C)	Colour (Max unit)	Turbidity (NTU ¹)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Dissolved Carbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Bromine (Br)	Nitrate (NO ₃)	Phosphate (P)	Phosphate Silica	Total	Calcium	Total						
BASTARDWAS RIVER	51°02'	90°12'	May 30	14.5 ^R			0.10							5			0.01 ^D 0.30 ^D 0.01 ^D 0.43 ^D	0.010							57 ^R		
			July 15	23 ^R		1.5	0.00	10	1	1			7	1	0.04		0.010		25		24 ^R	75	64 ^R				
			Aug. 1	20 ^R		1.6	0.02	10	1	1			7	2	<0.03	0.01 ^D 0.42 ^D	0.015		26		30 ^R	40	66 ^R				
			Aug. 19	24 ^R		1.5	0.15	9	3	1			< 5	2		<0.01 ^D 0.31 ^D	0.015		25		34 ^R	90	54 ^R	2 ^R	3 ^R		
			Sept. 24			1.5	0.20	9	1	0.5			0	< 1		<0.01 ^D 0.20 ^D	0.015		24			55		30 ^R	10 ^R		
THOUTLEY LAKE - bottom	51°02'	86°53'	June 21	11 ^R	7.7 ^R	0.4	0.05	31	6	1			0	1	0.06	<0.01 ^D 0.21 ^D	0.008		107		100 ^R	120	226 ^R	5 ^R	0 ^R		
			July 20	16 ^R		0.1	0.10	32	6	1			< 5	2		<0.01 ^D 0.26 ^D	0.007		109			120	216 ^R	0 ^R	0 ^R		
			Aug. 15	19 ^R	8.2 ^R	6.1	0.30	34	6	1			< 5	2		<0.01 ^D 0.26 ^D	0.018		111			130	220 ^R	10 ^R	0 ^R		
			Sept. 13	14 ^R			0.15	32	6	1			0	1		<0.01 ^D 0.27 ^D	0.011		104			140	198 ^R	0 ^R	0 ^R		
			Oct. 6	10 ^R			0.20	32	5	1			< 1	1		<0.01 ^D 0.71 ^D	0.019		104			120	211 ^R	0	5		
THOUTLEY LAKE - composite	51°02'	86°53'	June 21	13 ^R	8.0 ^R	0.4	0.05	31	6	1			0	1	0.03	<0.01 ^D 0.17 ^D	0.011		106		100 ^R	110	218 ^R	0 ^R	0 ^R		
			July 20	19 ^R		3.0	0.05	32	6	1			< 5	1		<0.01 ^D 0.20 ^D	0.005		106			120	204 ^R	0 ^R	0 ^R		
			Aug. 15	22 ^R	8.0 ^R	3.0	0.10	32	5	1			< 5	< 1		<0.01 ^D 0.19 ^D	0.004		105			110	204 ^R	0 ^R	0 ^R		
			Sept. 13	14 ^R		4.1	0.10	32	1	0.9			1	1		<0.01 ^D 0.17 ^D	0.008		106			120	198 ^R	0 ^R	5 ^R		
			Oct. 6	10 ^R		3.8	0.10	32	3	1.0			0	2		<0.01 ^D 0.23 ^D	0.006		104		104 ^R	140	209 ^R	0 ^R	2 ^R		
WELL BK 3-2	50°10'	86°51'	July 17		7.7	0.80	66	8	3	2.3			10	2		<0.01 ^D 0.30 ^D	0.002	0	192		196	220	353	10	80		
WELL M3-1	50°16'	86°46'	July 23		7.6	0.25	86	6	6	5.6			8	8		0.26 ^R 0.06 ^D 0.52 ^D	0.011	0	235		240		494	< 5			
WELL M3-94	49°42'	86°52'	Sept. 2		7.6	11.0	3.50	714	88	88	10.3		970	53	0.35	0.06 ^D 0.52 ^D	0.010	0	272		1152	1970	2134	30	4		
WELL M3-95	49°40'	86°51'	Sept. 2		7.7	12.0	0.10	79	11	3	1.4		7	12	0.05	0.25 ^D 0.12 ^D	0.004	0	221		236	390	450	5	1.5		
WELL M3-96	49°40'	86°51'	Sept. 2		7.0	16.0	0.10	146	22	15	1.5		7	39	0.08	0.44 ^D 0.11 ^D	0.001	0	431		454	560	883	< 5	1.5		
WELL M3-97	49°40'	86°52'	Sept. 2		7.6	18.0	1.25	53	13	16	2.8		3	4	0.09	0.01 ^D 0.46 ^D 0.20 ^D 0.55 ^D	0.018	0	261		226	700	463	16	1.5		
WELL M3-98	50°13'	86°58'	Sept. 5		7.4	12.2	0.30	63	10	3	0.7		3	22	0.04	0.07 ^D 0.15 ^D 0.26 ^D	0.110	0	169		198	260	306	< 5	3		
WELL M3-99	50°13'	87°02'	Sept. 5		7.6	11.0	0.05	63	12	3	2.1		6	1	0.06		0.006	0	202		204	230	361	< 5	2		

* indicates analyses performed in the Ontario Water Resources Commission Laboratory
 ** J.T.U. - Jackson Turbidity Unit

d - Dissolve as N
 n - Total Nitrogen

x - Field Analysis
 + - In Stream
 * - Settled

TABLE 44 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - ALBANY RIVER BASIN

44

ALBANY RIVER BASIN

SOLIDS	Latitude N-S	Longitude W-E	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Suspended Solids (ppm)	Specific Conductance (µmhos/cm)	Color (Pt-Co)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Copper (Cu)	Manganese (Mn)	Nitrite (NO ₂)	Nitrate (NO ₃)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Bromide (Br)	Iodide (I)	Fluoride (F)	Phosphate (PO ₄)	Barium	Calcium	Magnesium						
WELL WS-100	50°15'	86°40'	Sept. 5	7.6	22.9	0.40	97	19	9	2.0			<1	2	0.11	0.02 ^d 0.88 ^e 0.15 ^f	0.004	0	339		320	350	601	20	3		
WELL WS-101	50°12'	86°40'	Sept. 5	7.4	12.7	0.25	104	22	3	1.5			7	2	0.05	0.15 ^f 0.15 ^f	0.006	0	353		350	350	637	< 3	3		
WELL WS-102	49°48'	86°20'	Sept. 5	7.6	8.9	0.15	50	6	2	0.9			7	3	0.04	0.12 ^f 0.15 ^f	0.005	0	137		148	180	236	13	1.5		
WELL WS-103	49°07'	86°09'	Sept. 5	7.4	12.8	3.65	102	14	23	5.3			10	19	0.14	0.01 ^d 1.00 ^e	0.004	0	353		330	460	692	190	2		
WELL WS-104	49°06'	86°09'	Sept. 5	7.4	8.0	0.05	101	16	4	1.9			8	9	0.08	3.76 ^g 0.31 ^h	0.003	0	209		318	360	588	< 5	1		
WELL WS-105	49°48'	86°19'	Sept. 5	7.6	6.9	0.05	79	20	3	0.4			3	13	0.07	0.50 ^d 0.15 ^f 0.30 ^h	0.002	0	232		240	290	455	< 5	1		
WELL WS-106	49°48'	86°14'	Sept. 5	7.5	7.6	0.10	70	31	2	0.8			10	2	0.06	0.15 ^f 0.30 ^h	0.014	0	218		220	260	413	< 5	4		
WELL WS-107	49°48'	85°56'	Sept. 5	7.4	13.8	0.10	116	28	3	1.4			8	10	0.06	0.50 ^d 0.29 ^h	0.005	0	398		408	480	730	< 5	4		
WELL WS-108	50°13'	86°40'	Sept. 5	7.4	7.2	0.30	57	9	1	0.3			4	1	0.05	0.98 ^d 0.24 ^h	0.002	0	117		180	240	331	< 5			
WELL WS-109	50°03'	86°05'	Sept. 5	7.5	7.3	0.05	61	11	1	0.6			9	1	0.06	0.11 ^d 0.20 ^h	0.002	0			158	230	373	< 5			
WELL WS-110	49°47'	86°56'	Sept. 15	7.4	6.0	2.65	74	9	2	0.8			1	4	<0.03	0.01 ^d 1.45 ^g 0.40 ^h	0.115	0	214		220	265	393	150	6		
WELL WS-111	49°45'	86°57'	Sept. 15	7.5	8.6	0.15	80	14	5	0.7			14	12	<0.03	0.10 ^d 0.26 ^h	0.009	0	235		260	295	493	< 5	1		

* Indicate analysis performed in the Oregon Water Resources Conservation Laboratory

** F.P. = Jackson Turbidity Disc

z - Field Analysis

d - Nitrate as N

e - In Excess

f - Total Nitrogen

g - Settled

TABLE 45

CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - ATTAWAPISKAT RIVER BASIN

ATTAWAPISKAT RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (C)	pH	Constituents in parts per million													Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance at 25°C (microhm/cm)	Colour (Pt-Co)	Turbidity (J.T.E. 1')
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Boron (B)	Nitrate (NO ₃)	Phosphorus (P)	Phenolphthalein	Total	Calcium	Total					
ATTAWAPISKAT LAKE - bottom	52°15'	87°55'	June 21	13°	7.5	2.8	0.15	14	2	1			2	1	<0.03	<0.01 ¹ 0.30 ²	0.014		42			90	99 ²	40 ²	12 ²	
			July 20	18°	7.8	2.6	0.20	14	2	1			<5	2		<0.01 ¹ 0.33 ²	0.011		46			80	96 ²	39 ²	15 ²	
			Aug. 13	19°		2.9	0.25	12	4	1			<5	<1		<0.01 ¹ 0.31 ²	0.018		45			70	94 ²	60 ²	20 ²	
			Sept. 13	13°		2.3	0.45	21	1	0.5			2	<1		<0.01 ¹ 0.42 ²	0.018		47			90	94 ²	70 ²	26 ²	
			Oct. 6	8°			0.70	15	3	0.6			2	<1		<0.01 ¹ 0.50 ²	0.016		43			80	88 ²	85 ²	30 ²	
ATTAWAPISKAT LAKE - composite	52°15'	87°55'	June 21	13°	7.5	2.1	0.20	13	2	1			1	1	0.04	<0.01 ¹ 0.30 ²	0.017		41			85	94 ²	40 ²	15 ²	
			July 20	19°	7.8	2.3	0.20	16	2	1			<5	2		<0.01 ¹ 0.35 ²	0.013		47			70	98 ²	39 ²	15 ²	
			Aug. 13	22°		2.7	0.20	16	3	1			<5	<1		<0.01 ¹ 0.30 ²	0.013		45			80	91 ²	70 ²	13 ²	
			Sept. 13	13°		3.1	0.35	16	2	0.6			1	1		<0.01 ¹ 0.30 ²	0.018		45			85	90 ²	70 ²	20 ²	
			Oct. 6	8°		3.5	0.40	15	4	0.5			1	1		<0.01 ¹ 0.53 ²	0.012		44			120	88 ²	85 ²	20 ²	
ATTAWAPISKAT RIVER	53°08'	85°05'	Aug. 16			2.8	0.30	18	3	1			5	1		<0.01 ¹ 0.30 ²	0.020		49			85				
			Sept. 27			3.0	0.50	16	3	1			5	1		<0.01 ¹ 0.54 ²	0.035		41			80				
PINEHURST RIVER	52°10'	88°45'	July 16	20°		2.1	0.35	21	4	1			2	1		<0.01 ¹ 0.50 ²	0.017		64			100				

¹ Values analysed prior to the Ontario Water Resources Commission Laboratory
² J.T.E. Station Conductivity Unit

d - Nitrate as N
 e - In Edges
 * - Total Nitrogen

x - Field Analysis
 * - In Edges
 * - Settled

TABLE 46

CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - MOOSE RIVER BASIN

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million													Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (microhm/cm @ 25°C)	Color (Pt-Co)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Bromine (Br)	Nitrate (NO ₃)	Phosphate (P)	Fluoride (F)	Total	Calcium	Total					
ARISTIDE RIVER	50°36'	81°25'	Oct. 21			3.7	1.38	22	5	2			17	2	0.06 ^g 0.58 ^g	0.052		63			130					
EXPUSKING RIVER	49°25'	82°26'	July 8			3.9	0.70	24	3	3			17	3	<0.01 ^g 0.69 ^g	0.030		67			135					
			Aug. 20			5.0	1.60	24	6	4			23	6	<0.01 ^g 1.60 ^g	0.035		60			210					
			Sept. 15			5.0	0.70	24	5	2			21	5	<0.01 ^g 0.77 ^g	0.072		39			200					
			Oct. 27			5.1	0.95	30	8	4			26	9	<0.01 ^g 1.60 ^g	0.160		55			380					
LAC ST. THERESE	49°40'	83°39'	July 21	7.3		0.40	23	2	1	0.6			2		0.01 ^g 0.89 ^g	0.029	0	61		68	139	119	140	6		
MISSISSAUGI RIVER	49°37'	83°16'	July 6			3.5	0.45	20	6	1			12	1	<0.01 ^g 0.89 ^g	0.023		64			120					
			Aug. 19			3.5	0.30	24	1	1			9	1	<0.01 ^g 0.35 ^g	0.017		50			110					
			Sept. 15			4.4	0.55	28	3	1			5	1	<0.01 ^g 0.56 ^g	0.038		74			140					
			Oct. 27			4.0	1.25	26	5	1			12	2	<0.01 ^g 0.61 ^g	0.053		72			125					
MOOSE RIVER	50°49'	81°10'	Oct. 20			3.7	0.60	26	3	2			11	3	<0.01 ^g 0.59 ^g	0.026		63			125					
SHERRAK RIVER (Albany River Basin)	49°45'	84°24'	July 7			0.20	37	6	1				8	1	<0.01 ^g 0.79 ^g	0.024		111			140					
			Aug. 12			4.6	0.30	37	8	1			5	2	<0.01 ^g 0.49 ^g	0.020		122			150					
			Sept. 17			4.5	0.29	34	5	1			3	1	<0.01 ^g 0.49 ^g	0.023		99			160					
WELL VS-2	49°43'	80°53'	July 21	7.5		1.60	92	14	13	2.6			4	2	<0.01 ^g 0.75 ^g	0.027	0	305		280	350	579	< 5	4		
WELL VS-3	49°20'	83°53'	July 21	7.4		0.30	107	5	2	0.3			5	3	0.75 ^g 0.75 ^g	0.039	0	294		280	290	597	< 5	4		
WELL VS-4	49°32'	83°50'	July 21	7.3		0.75	104	14	8	4.5			21	10	<0.01 ^g 0.75 ^g	0.034	0	329		320	330	642	10	6		
WELL VS-5	49°35'	83°45'	July 21	7.3		2.60	138	8	35	4.2			6	8	<0.01 ^g 0.75 ^g	0.053	0	461		376	499	806	30*	10		
WELL VS-6	49°36'	83°41'	July 21	7.5		1.09	88	6	35	4.0			2	6	<0.01 ^g 0.75 ^g	0.140	0	322		244	308	598	5	10		
WELL VS-7	49°40'	83°42'	July 21	7.4		4.70	110	7	21	2.3			6	12	<0.01 ^g 0.75 ^g	0.150	0	345		304	400	641	50*	30		
WELL VS-8	49°45'	83°39'	July 21	7.5		0.10	122	12	11	1.0			6	44	0.17 ^g 0.75 ^g	0.020	0	316		356	525	769	< 5	3		
WELL VS-9	49°40'	83°39'	July 21	7.4		0.15	126	20	6	1.4			7	2	0.20 ^g 0.75 ^g	0.007	0	418		460	480	733	< 5			
WELL VS-10	49°47'	83°47'	July 22	7.7		0.45	74	11	29	3.9			< 1	3	<0.01 ^g 0.75 ^g	0.064	0	305		284	340	547	< 5	4		
WELL VS-11	49°44'	80°33'	July 22	7.1		0.04	175	1	1	1			15	13	0.10 ^g 0.75 ^g	0.005	1	44		150	640	1123	< 5	1		

* Indicates analysis performed in the Ontario Water Resources Commission Laboratory

** NTU = Jackson Turbidity Unit

x - Field Analysis

+ - In Excess

z - Nitrate as N

n - Total Nitrogen

* - Settled

TABLE 46 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES MOOSE RIVER BASIN

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature [°C]	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids ppm	Specific Conductance (micro-mhos at 25°C)	Color (pcu/cm)	Turbidity (NTU)				
																				Total	Carbonate	Total									
						SiO ₂	Iron	Culch	Vanadium	Selenium	Fluoride	Boron	Sulfate	Chloride	Strontium	Nitrate	Phosphate	Phenyl oxide													
						(SiO ₂)	(Fe)	(Cu)	(V)	(Se)	(F)	(B)	(SO ₄)	(Cl)	(Sr)	(NO ₃)	(P)														
WELL W-1	49°56'	81°31'	July 22	7.1		0.35	197	50	4	1.4			15	320		<0.01 ^d	0.004	0	459		459	1365	1376	5	4						
WELL W-13	49°58'	81°59'	July 22	7.3		4.10	128	29	10	2.2			35	14		<0.01 ^d	0.067	0	386		420	545	869	20 ^e	30						
WELL W-14	49°56'	81°56'	July 22	7.6		2.95	74	10	33	1.5			<1	6		<0.01 ^d	0.063	0	362		260	420	620	15	4						
WELL W-15	49°55'	81°58'	July 22	7.3		1.35	120	27	8	1.4			19	11		<0.01 ^d	0.006	0	406		412	590	767	25	20						
WELL W-16	49°53'	82°53'	July 22	7.4		1.90	78	15	10	2.9			2	5		<0.01 ^d	0.079	0	273		269	340	495	25 ^e	15						
WELL W-17	49°52'	82°52'	July 22	7.4		2.65	104	16	7	3.5			2	3		<0.01 ^d	0.045	0	346		328	480	636	<5							
WELL W-18	49°50'	82°43'	July 22	7.6		1.70	96	24	27	2.9			2	8		<0.01 ^d	0.049	0	408		346	460	725	20 ^e	10						
WELL W-19	49°28'	82°37'	July 22	7.1		0.90	146	22	15	2.3			3	19		0.10 ^e	0.068	0	436		456	545	855	15	6						
WELL W-20	49°26'	82°31'	July 22	7.5		0.75	130	13	12	5.7			2	14		<0.01 ^d	0.068	0	405		380	460	735	10	4						
WELL W-21	49°24'	82°30'	July 22	7.2		0.45	53	7	65	1.0			35	3		<0.01 ^d	0.160	0	460		34	350	347	10	4						
WELL W-22	49°25'	82°22'	July 22	7.6		1.80	93	20	21	3.5			<1	1		<0.01 ^d	0.099	0	392		316	480	641	15	15						
WELL W-23	49°21'	82°22'	July 22	7.7		2.40	110	12	3	1.2			<1	2		<0.01 ^d	0.018	0	339		324	385	599	10	6						
WELL W-24	49°23'	82°15'	July 22	7.4		0.25	128	24	11	3.4			5	11		0.70 ^d	0.032	0	408		420	450	746	<5	15						
WELL W-25	49°18'	82°12'	July 22	7.7		0.65	51	15	49	3.4			<1	2		<0.01 ^d	0.032	0	381		192	350	531	<5	3						
WELL W-26	49°25'	82°08'	July 22	7.5		0.40	36	10	13	3.7			<1	2		<0.01 ^d	0.066	0	355		292	380	722	<5	4						
WELL W-27	49°20'	82°09'	July 22	7.3		0.90	130	17	33	2.9			20	30		0.21 ^e	0.032	0	398		400		887	<5							
WELL W-28	49°19'	82°02'	July 22	7.2		0.40	190	29	43	4.0			31	87		0.72 ^d	0.014	0	545		596		1260	5							
WELL W-29	49°19'	81°55'	July 22	7.6		2.40	88	25	14	3.4			2	2		<0.01 ^d	0.018	0	352		316		467	25							
WELL W-30	49°16'	81°48'	July 22	7.5		2.40	110	19	6	2.4			1	2		<0.01 ^d	0.050	0	373		356		460	25							
WELL W-31	49°11'	81°50'	July 22	7.4		0.45	44	7	1	1.1			5	2		0.08 ^e	0.021	0	460		4		400	40							
WELL W-32	49°17'	81°42'	July 24	7.7		0.60	66	7	24	1.7			<1	3		<0.01 ^d	0.040	0	329		192		590	<5							
WELL W-33	49°14'	81°35'	July 24	8.0		0.55	40	16	62	3.8			<1	2		<0.01 ^d	0.035	0	310		168		558	<5							
WELL W-34	49°12'	81°26'	July 24	7.4		2.50	116	7	4	3.8			<1	38		<0.01 ^d	0.003	0	346		320		724	too turbid	<150						
WELL W-35	48°56'	81°13'	July 24	7.0		2.50	84	1	1	3.4			3	5		0.01 ^e	0.220	0	243		400		539	>50 ^e	60						

* sulfates analyzed per method in the Domestic Water Resources Commission Laboratory

** NTU = Jackson Turbidity Unit

d - Nitrate as N

e - Total Nitrogen

x - Field Analysis

+ - In Excess

- Settled

TABLE 46 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES MOOSE RIVER BASIN

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million													Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (µmhos/cm at 25°C)	Color (Pt-Co)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sulfate (SO ₄)	Fluoride (F)	Chloride (Cl)	Nitrate (NO ₃ -N)	Nitrite (NO ₂ -N)	Ammonia (NH ₃ -N)	Phosphate (PO ₄ -P)	Phosphorus (P)	Total	Calcium	Total						
WELL WS-36	49°10'	81°16'	July 24	7.3		2.25	110	23	6	4.2		< 1	1		< 0.01 ^d	0.031	0	396		392		693	< 5			
WELL WS-37	49°07'	81°17'	July 24	7.5		1.60	66	38	17	9.8		< 1	1		< 0.01 ^d	0.037	0	347		296		607	15			
WELL WS-38	49°03'	81°11'	July 24	7.4		0.60	43	21	4	1.0		6	4		0.02 ^d	0.010	0	134		132		262	78*			
WELL WS-39	49°02'	81°09'	July 24	7.4		0.55	105	21	14	4		1			< 0.01 ^d	0.015	0	304		264		272	15			
WELL WS-40	49°05'	81°09'	July 24	7.5		2.70	90	8	6	4.2		6	1		< 0.01 ^d	0.028	0	322		256		573	< 5			
WELL WS-41	49°10'	81°04'	July 24	6.9		0.70	147	23	8	5.2		9	14		< 0.01 ^d	0.030	0	453		460		841	150*	50		
WELL WS-42	49°15'	81°04'	July 24	7.6		1.25	104	19	4	0.5		6	4		5.30 ^d	0.017	0	316		340		629	15			
WELL WS-43	49°07'	81°09'	July 24	7.6		1.35	66	13	28	4.7		5	2		0.01 ^d	0.036	0	324		220		575	65			
WELL WS-44	49°12'	80°01'	July 24	7.3		0.20	112	18	13	1.4		14	12		2.18 ^d	0.005	0	264		356		743	< 5			
WELL WS-45	49°02'	80°59'	July 24	7.5		1.10	94	22	5	4.0		< 1	1		0.02 ^d	0.034	0	354		340		627	< 5			
WELL WS-46	49°05'	80°58'	July 24	7.4		1.43	104	20	13	3.7		5	1		40.01 ^d	0.070	0	305		344		671	< 5			
WELL WS-47	49°06'	80°50'	July 25	7.4		0.55	103	21	4	1.6		10	3		< 0.01 ^d	0.003	0	361		344		666	< 5			
WELL WS-48	49°04'	80°49'	July 25	7.4		0.85	80	12	5	1.8		6	1		< 0.01 ^d	0.016	0	297		234		532	< 5			
WELL WS-49	49°00'	80°48'	July 25	7.2		0.35	107	19	16	1.7		13	12		3.20 ^d	0.008	0	345		348		713	< 5			
WELL WS-50	48°58'	80°44'	July 25	7.4		0.15	99	16	14	2.4		10	2		0.12 ^d	0.005	0	390		316		701	< 5			
WELL WS-51	49°03'	80°53'	July 25	7.4		1.25	94	19	18	2.5		7	1		0.02 ^d	0.078	0	370		316		671	< 5			
WELL WS-52	49°02'	81°00'	July 25	7.6		1.10	68	21	15	4.2		1	2		0.01 ^d	0.026	0	322		256		562	5			
WELL WS-53	48°58'	81°00'	July 25	7.5		0.85	64	5	5	3.3		5	1		0.02 ^d	0.018	0	224		180		410	< 5			
WELL WS-54	48°52'	80°52'	July 25	7.0		12.50	112	14	53	3.0		2	77		0.05 ^d	1.000	0	362		300		900	200*	70		
WELL WS-55	48°47'	80°49'	July 25	7.5		2.05	83	18	10	2.1		5	9		0.28 ^d	0.031	0	291		284	330	551	15			
WELL WS-56	48°44'	80°40'	July 25	7.7		7.40	77	25	33	4.3		< 1	3		< 0.01 ^d	0.028	0	360		296		621	5			
WELL WS-57	48°42'	80°39'	July 25	7.2		1.65	145	8	11	0.7		< 1	4		< 0.01 ^d	0.006	0	426		395	490	642	15			
WELL WS-58	48°40'	80°41'	July 25	7.4		0.45	115	19	7	2.5		< 1	2		0.03 ^d	0.013	0	384		360	420	668	5			
WELL WS-59	48°42'	79°11'	July 25	7.4		0.10	128	19	17	2.0		7	23		0.12 ^d	0.005	0	410		400		782	10			

* Indicates analysis performed to the Moose River Water Resource Remediation Laboratory
 ** J.T.C. = Jackson Turbidity Unit

d - Nitrate as N
 n - Total Nitrogen

Y - Field Analyte
 + - In Process
 * - Section

TABLE 46 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - MOOSE RIVER BASIN

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million													Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Sulfate ppm	Specific Conductance (microhm/cm at 25°C)	Color (Pt-Co Unit)	Turbidity (NTU)	
						Silica (SiO ₂)	Iron (Fe)	Cadmium (Cd)	Copper (Cu)	Nickel (Ni)	Barium (Ba)	Boron (B)	Chloride (Cl)	Sulfate (SO ₄)	Calcium (Ca)	Sodium (Na)	Magnesium (Mg)	Phosphate (P)	Fluoride (F)	Total	Carbonate	Total					
						(SiO ₂)	(Fe)	(Cd)	(Cu)	(Ni)	(Ba)	(B)	(Cl)	(SO ₄)	(Ca)	(Na)	(Mg)	(P)	(F)								
WELL W-60	46°31'	81°52'	July 24	7.4		0.20	11	3	1	2			< 1	1				< 0.01 ^d	0.204	0	363		344	361	84	3	
WELL W-61	46°34'	80°54'	July 25	7.0		0.15	3	1					2	2				0.14 ^d	0.113	0	4		49	19	144	< 5	
WELL W-62	46°33'	80°55'	July 25	7.7		0.85	64	14	3	1.5			< 1	1				0.01 ^d	0.098	0	221		220	280	396	< 5	
WELL W-63	46°27'	81°27'	July 27	7.8		0.10	79	13	2	0.4			< 1	7				0.21 ^d	0.001	0	294		250	350	453	< 5	
WELL W-64	46°17'	81°47'	July 27	7.0		0.20	18	3	1	0.7			5	2				0.39 ^d	0.003	0	46		55	180	168	< 5	4
WELL W-65	46°14'	82°18'	July 27	7.4		1.10	34	5	77	1.2			8	118				4.30 ^d	0.011	0	69		106	320	368	< 5	4
WELL W-66	46°15'	82°27'	July 27	7.6		0.25	82	24	17	1.6			6	30				0.22 ^d	0.001	0	279		308	350	610	< 5	1
WELL W-67	46°18'	82°36'	July 27	7.8		1.35	77	9	7	4.7			8	22				2.10 ^d	0.007	0	208		228				
WELL W-68	46°58'	82°59'	July 27	7.0		0.05	37	3	2	2.0			8	3				1.10 ^d	0.002	0	96		104	170	240	< 5	3
WELL W-69	46°43'	83°28'	July 27	7.5		0.55	34	2	2	0.7			10	2				0.66 ^d	0.002	0	83		98	140	191	15	3
WELL W-70	46°51'	83°28'	July 27	7.0		0.10	78	12	5	1.9			11	9				4.90 ^d	0.112	0	223		244	460	450	< 5	2
WELL W-71	46°10'	82°30'	July 27	7.7		1.10	68	5	2	1.3			9	2				< 0.81 ^d	0.009	0	193		192	240	375	20	2
WELL W-72	46°41'	81°49'	July 28	7.8		0.10	39	2	10	1.7			8	4				1.40 ^d	0.032	0	87		84	160	226	< 5	1
WELL W-73	46°35'	81°39'	July 29	7.6		2.35	70	17	4	7.1			< 1	2				0.01 ^d	0.110	0	277		252	308	460	< 5 ^a	8
WELL W-74	46°32'	81°28'	July 29	7.4		3.10	129	22	7	2.0			8	2				< 0.81 ^d	0.012	0	423		412	440	696	< 5	10
WELL W-75	46°42'	81°23'	July 29	7.6		1.90	66	22	43	2.4			< 1	13				< 0.81 ^d	0.005	0	318		248	360	530	< 5	6
WELL W-76	46°23'	81°07'	July 29	7.3		0.15	34	5	16	2.8			7	25				1.10 ^d	0.005	0	94		104	260	313	< 5	1.5
WELL W-77	46°58'	81°59'	July 29	7.5		0.40	107	26	12	2.4			2	7				0.12 ^d	0.012	0	397		376	420	638	< 5	2
WELL W-78	46°42'	81°02'	July 29	8.1		2.90	24	2	1	0.6			8	2				0.01 ^d	0.017	0	63		68	130	197	25	12
WELL W-79	46°30'	80°46'	July 30	7.8		2.00	80	17	8	2.2			< 1	2				< 0.81 ^d	0.029	0	288		274	320	486	< 5	8
WELL W-80	46°32'	80°41'	July 30	7.7		0.20	77	30	20	3.7			< 1	3				0.30 ^d	0.008	0	271		316	420	630	< 5	2
WELL W-81	46°29'	80°39'	July 30	7.5		0.25	114	26	5	0.5			2	2				0.26 ^d	0.009	0	405		392	430	698	< 5	2
WELL W-82	46°30'	80°38'	July 30	7.4		0.75	123	19	32	1.1			13	73				0.75 ^d	0.017	0	351		380	510	892	< 5	3
WELL W-83	46°35'	80°33'	July 30	7.4		0.80	55	2	2	0.9			7	2				0.30 ^d	0.005	0	148		140		5		

* - values analysis performed in the Ontario Water Resources Commission Laboratory
** - 4.0 - 10.0 - 100.0 - 1000.0

4 - Nitrate as N
e - Total Nitrogen

x - Field Analysis
+ - In Excess
- - Settled

TABLE 46 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - MOOSE RIVER BASIN

MOOSE RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (µmhos at 25 °C)	Color (Pt-Co Unit)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Bromine (Br)	Nitrate (NO ₃)	Phosphate (P)	Fluoride (F)	Total	Calcium	Total						
WELL WS-84	48°30'	86°28'	July 30		7.8		0.10	35	3	1	0.5		7	2		0.08 ^d	0.003	0	101		102		201		< 5		
WELL WS-85	48°28'	86°25'	July 30		7.1		0.10	24	1	2	0.4		8	2		1.26 ^d	0.003	0	57		64		142		< 5		
WELL WS-86	48°25'	86°20'	July 30		7.9		0.30	61	5	3	0.9		8	2		<0.01 ^d	0.001	0	173		172		331		< 5		
WELL WS-87	48°21'	86°14'	July 30		7.2		0.20	37	4	6	0.7		9	5		2.20 ^d	0.003	0	106		108		243		< 5		
WELL WS-88	48°17'	86°15'	July 30		7.3		1.30	130	21	20	1.8		44	29		<0.01 ^d	0.014	0	392		432		837		< 5		
WELL WS-89	48°29'	86°20'	July 30		7.6		0.75	82	28	14	3.1		7	3		0.20 ^d	0.015	0	349		320		622		< 5		
WELL WS-90	48°36'	86°30'	July 30		7.6		0.70	83	20	21	3.5		< 1	2		<0.01 ^d	0.015	0	345		292		601		< 5		
WELL WS-91	48°36'	86°27'	July 30		7.4		0.15	142	92	11	1.6		10	26		3.90 ^d	0.003	0	420		440		842		< 5		
WELL WS-92	48°35'	86°09'	July 30		6.5		0.40	14	1	3	0.4		7	5		0.56 ^d	0.007	0	34		40		92		< 5		
WELL WS-93	48°32'	86°19'	July 30		7.4		4.25	191	24	10	2.7		9	59		<0.01 ^d	0.010	0	513		500		1052		15		

* indicates analysis performed in the Ontario Water Resources Commission Laboratory

** T.T.U. = Jackson Turbidity Unit

d - Nitrate as N

Σ - Total Nitrogen

x - Field Analyte

+ - In Excess

* - Settled

CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - SEVERN RIVER BASIN

SEVERN RIVER BASIN

Source	Latitude N	Longitude W	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids ppm	Specific Conductance at 25°C µmhos/cm	Color Pt-Co	Turbidity NTU
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Aluminum (Al)	Potassium (K)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (N)	Nitrite (NO ₂)	Phosphate (P)	Phosphorus as P ₂ O ₅	Total	Carbonate								
BIG TROUT LAKE - composite	53°45'	50°09'	June 18	7 ⁸	7.5 ⁸	1.10	0.15	18	-	1	-	-	-	-	-	-	-	37	-	37	-	11	105 ⁸	10 ⁸	5 ⁸		
			July 5	10 ⁸	7.7 ⁸	0.90	0.10	18	1	1	-	1	1	-	-	-	54	-	54	-	100	116 ⁸	10 ⁸	5 ⁸			
			July 19	10 ⁸	-	1.20	0.15	18	2	1	-	< 5	1	-	-	-	56	-	56	-	90	116 ⁸	10 ⁸	5 ⁸			
			Aug. 6	14 ⁸	-	1.70	0.20	18	2	1	-	< 5	1	-	-	-	55	-	55	-	90	116 ⁸	10 ⁸	5 ⁸			
			Aug. 16	12 ⁸	7.3 ⁸	2.30	0.15	19	2	1	-	< 5	1	-	-	-	56	-	56	-	90	116 ⁸	15 ⁸	5 ⁸			
BIG TROUT LAKE - bog	53°51'	50°53'	Sept. 28	10 ⁸	-	0.90	0.40	14	3	0.6	-	2	1	-	-	-	55	-	55	-	50	110 ⁸	16 ⁸	3 ⁸			
			June 18	7 ⁸	7.9 ⁸	1.10	1.50	22	1	1	-	1	1	0.66	-	-	59	-	59 ⁸	-	85	121 ⁸	10 ⁸	5 ⁸			
			July 5	15 ⁸	7.7 ⁸	0.70	0.05	18	1	1	-	0	1	< 0.3	-	-	54	-	54	-	80	112 ⁸	10 ⁸	10 ⁸			
			July 19	15 ⁸	-	0.60	0.05	19	1	1	-	< 5	< 1	-	-	-	56	-	56	-	140	113 ⁸	10 ⁸	5 ⁸			
			Aug. 6	16 ⁸	-	0.80	0.10	16	5	1	-	< 5	< 1	-	-	-	60	-	60	-	116 ⁸	10 ⁸	5 ⁸				
BIG TROUT LAKE - bog	53°51'	50°53'	Aug. 16	18 ⁸	8.5 ⁸	0.80	0.30	17	2	1	-	< 5	3	-	-	-	55	-	55	-	90	108 ⁸	10 ⁸	0 ⁸			
			Sept. 28	10 ⁸	-	0.90	0.15	18	4	0.6	-	0	1	-	-	-	55	-	55	-	75	108 ⁸	10 ⁸	4 ⁸			
			June 20	20 ⁸	7.7 ⁸	2.70	0.15	18	2	1	-	6	1	0.13	-	-	49	-	49	-	52 ⁸	90	105 ⁸	85 ⁸	30 ⁸		
			July 21	22 ⁸	-	2.40	0.20	21	2	1	-	< 5	< 1	-	-	-	56	-	56	-	110	116 ⁸	85 ⁸	20 ⁸			
			Aug. 5	19 ⁸	-	2.70	0.20	22	2	1	-	< 5	1	-	-	-	58	-	58	-	62 ⁸	120	116 ⁸	85	20 ⁸		
BIG LAKE	54°35'	89°36'	Aug. 11	22 ⁸	8.2 ⁸	0.30	0.15	14	1	1	-	< 5	2	-	-	-	40	-	40	-	40 ⁸	60	77 ⁸	20 ⁸	10 ⁸		
			July 18	20 ⁸	-	4.30	2.25	13	4	1	-	9	1	< 0.3	-	-	41	-	41	-	155	92 ⁸	-	-			
FLAVAGAN RIVER	52°49'	93°27'	June 2	14 ⁸	-	0.15	-	-	-	-	-	5	-	-	-	-	44 ⁸	-	44 ⁸	-	-	79 ⁸	-	-			
			July 30	23 ⁸	-	4.30	3.35	14	3	1	-	< 1	1	0.3	-	-	41	-	41	-	46 ⁸	145	70 ⁸	-	-		
HARVEY LAKE	55°38'	88°21'	Aug. 3	16 ⁸	-	0.70	0.25	8	3	1	-	< 5	4	-	-	-	38	-	38	-	40 ⁸	70	88 ⁸	20 ⁸	10 ⁸		
			June 22	15 ⁸	-	1.20	0.40	14	2	1	-	7	1	< 0.3	-	-	34	-	34	-	46 ⁸	150	80 ⁸	-	-		
MORRISON RIVER	53°48'	91°59'	June 22	15 ⁸	-	1.20	0.40	14	2	1	-	7	1	< 0.3	-	-	34	-	34	-	46 ⁸	150	80 ⁸	-	-		
			July 19	20 ⁸	-	2.20	0.80	14	3	1	-	7	1	< 0.3	-	-	40	-	40	-	48 ⁸	195	89 ⁸	-	-		

* indicates analysis performed in the Ontario Water Resources Commission Laboratory
 ** 2.0 NTU = Jackson Turbidity Unit

x - Field Analysis
 d - Nitrate as N
 e - In Error
 n - Nitrogen

TABLE 47 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES - SEVERN RIVER BASIN

SEVERN RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (Microhm at 25°C)	Calcium (ppm)	Total (ppm)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Bromine (Br)	Nitrate (NO ₃)	Phosphate (P)	Phosphorus (P)	Total	Calcium	Total						
ROBINSON RIVER (continued)	53°48'	91°50'	July 29			2.20	0.14	16	2	1			7	1	0.04	<0.01 ^a 0.53 ^a	0.022		45			95					
			Aug. 21	17°		2.30	0.50	18	3	1			< 5	1		<0.01 ^a 0.40 ^a	0.022		53		56 ^x	80	115 ^x	33 ^x	6 ^x		
NORTH SPIRIT LAKE - bottom	52°30'	92°55'	June 21	11°	7.6 ^x	3.62	0.20	10	1	1			0	1	<0.03	<0.01 ^a 0.38 ^a	0.023		26		28 ^x	80	61 ^x	70 ^x	75 ^x		
			July 20	12°		3.70	0.30	8	2	1			< 5	< 1		<0.02 ^a 0.23 ^a	0.012		27			60	61 ^x	70 ^x	10 ^x		
			Aug. 13	15°		4.30	0.30	10	2	1			< 5	2		<0.01 ^a 0.35 ^a	0.016		26			60	61 ^x	70 ^x	70 ^x		
			Sept. 11	15°		3.00	0.40	10	2	0.9			< 1	1		<0.02 ^a 0.35 ^a	0.101		26			80	60 ^x	70 ^x	15 ^x		
			Oct. 5	10°			0.25	10	1	0.7			< 1	< 1		<0.02 ^a 0.35 ^a	0.015		27			60	61	70 ^x	10 ^x		
NORTH SPIRIT LAKE - composite	52°30'	92°55'	June 21	11°	4.4 ^x	3.30	0.14	8		1				1	< 0.03	< 0.01 ^a 0.40 ^a	0.023		44		32 ^x	80	75 ^x	70 ^x	30 ^x		
			July 20	21°		2.60	0.20	8	2	1			< 5	< 1		<0.01 ^a 0.40 ^a	0.013		26			80	58 ^x	70 ^x	10 ^x		
			Aug. 13	23°		2.90	0.20	10	2	1			< 5	< 1		<0.01 ^a 0.40 ^a	0.014		28			80	59 ^x	70 ^x	10 ^x		
			Sept. 11	15°		2.90	0.25	10	4	0.9			< 1	1		<0.02 ^a 0.35 ^a	0.012		27			60	59 ^x	70 ^x	15 ^x		
			Oct. 5	11°		3.40	0.25	10	4	0.7			< 1	1		<0.02 ^a 0.33 ^a	0.015		29			50	61 ^x	70 ^x	15 ^x		
OTTAWA LAKE	50°11'	88°55'	Aug. 13	23°	8.0 ^x	0.20	0.30	19	1	1			< 5	2		<0.02 ^a 0.75 ^a	0.030		25		26 ^x	80	52 ^x	70 ^x	12 ^x		
ROSEBERRY LAKE - bottom	52°30'	92°31'	June 21	8°	7.6 ^x	5.00	0.25	10	2	1			4	1	0.00	0.04 ^a 0.53 ^a	0.037		32		36 ^x	80	75 ^x	70 ^x	10 ^x		
			July 20	8°		4.60	0.30	11	1	1			< 0.5	< 1		0.02 ^a 0.38 ^a	0.028		33			60	68 ^x	70 ^x	10 ^x		
			Aug. 13	8°		4.60	0.35	11	1	1			< 0.5	< 1		0.06 ^a 0.35 ^a	0.030		34			70	64 ^x	70 ^x	10 ^x		
			Sept. 11	8°		5.70	0.60	11	3	1.1			3	< 1		<0.02 ^a 0.38 ^a	0.042		34			70	72 ^x	70 ^x	10 ^x		
			Oct. 5	9°		3.80	0.40	11	2	0.9			< 1	< 1		0.02 ^a 0.40 ^a	0.036		33		30 ^x	80	73 ^x	70 ^x	10 ^x		
ROSEBERRY LAKE - composite	52°30'	92°31'	June 21	16°	7.6 ^x	4.20	0.25	10	2	1			5	1	<0.03	<0.01 ^a 0.37 ^a	0.022		31		32 ^x	80	72 ^x	70 ^x	30 ^x		
			July 20	21°		3.00	0.20	11	2	1			< 5	< 1		<0.01 ^a 1.10 ^a	0.016		32			70	66 ^x	70 ^x	10 ^x		
			Aug. 13	23°		3.10	0.30	8	3	1			< 5	2		<0.01 ^a 0.39 ^a	0.019		33			60	66 ^x	70 ^x	10 ^x		
			Sept. 11	15°		3.10	0.40	11	3	1.1			0	1		<0.01 ^a 0.38 ^a	0.012		35			85	60 ^x	70 ^x	15 ^x		
			Oct. 5	9°		0.30	11	2	1.1				2	2		<0.01 ^a 0.38 ^a	0.015		33			110	72 ^x	70 ^x	15 ^x		

* Indicate analysis performed in the Ontario Water Resources Commission Laboratory

** 23°C = Jackson Park (10/10)

d - Silicate as N
e - Total Nitrogenx - Field Analysis
- In Excess
- Settled

TABLE 47 (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES SEVERN RIVER BASIN

SEVERN RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature (°C)	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids (ppm)	Specific Conductance (micro-mhos at 25°C)	Color (pcu units)	Turbidity
						Silica (SiO ₂)	Iron (Fe)	Copper (Cu)	Magnesium (Mg)	Sulfate (SO ₄)	Fluoride (F)	Chloride (Cl)	Nitrate (NO ₃)	Phosphate (P)	Ammonia (NH ₃)	Total	Calcium	Total									
SACRED RIVER - Inflow	53°42'	92°17'	July 18	18°		3.10	0.22	17	2	1					7	1	<0.03	0.014 0.46 ^a	0.020	47		48 ^x	115	185 ^x			
			July 29	20°		3.00	0.26	19	2	1					7	1	0.03	<0.014 0.46 ^a	0.017	53		60 ^x	105	119 ^x			
SANDY LAKE	53°09'	93°00'	Aug. 13	23°	8.2 ^x	3.60	1.50	16	3	1					6	2		<0.014 0.46 ^a	0.066	47			100	95 ^x	125 ^x	55 ^x	
			Sept. 5	16°	7.8 ^x	4.20	1.60	15	6	1.4					11	1		<0.014 0.46 ^a	0.050	43		44 ^x	120	88 ^x	100 ^x	45 ^x	
			Oct. 5	9°		4.70	3.90	15	3	1.6					18	1		<0.014 0.46 ^a	0.060	50			110	99 ^x	150 ^x	60 ^x	
SANDY LAKE	54°50'	89°40'	June 26		7.8 ^x	0.90	0.15	13	1	1					2	1	<0.03	<0.014 0.46 ^a	0.016	37		40 ^x	80	83 ^x	15 ^x	14 ^x	
			July 18	19°		0.70	0.30	14	2	1					<5	2		<0.014 0.46 ^a	0.016	41			80	83 ^x	15 ^x	18 ^x	
			Aug. 4	16°		1.10	0.45	15	1	1					<5	<1		<0.014 0.46 ^a	0.036	43			120	88 ^x	30 ^x	15 ^x	
			Aug. 15	25°				14	3	1					<5	<1		<0.014 0.46 ^a	0.028	49			90	88 ^x	30 ^x	8 ^x	
			Sept. 9	16°	8.1 ^x	1.30	0.90	16	3	0.6					0	1		<0.014 0.46 ^a	0.011	46		48 ^x	90	89 ^x	20 ^x	13 ^x	
SCARLE RIVER	53°33'	91°09'	June 1	16°				0.35										0.012 0.46 ^a	0.001						66 ^x		
			July 20	18°		2.00	0.05	13	1	1					7	1	<0.03	0.014 0.46 ^a	0.015	33		48 ^x	75	76 ^x			
			July 31	25°		2.10	0.16	14	1	1					7	1	0.03	0.014 0.46 ^a	0.016	35		46 ^x	85	70 ^x			
			Aug. 20	18°		2.50	0.30	14	2	1					<5	2		<0.014 0.46 ^a	0.011	39		39 ^x	100	84 ^x	30 ^x	23 ^x	
			Sept. 29			3.00	0.40	14	3	0.8					2	1		<0.014 0.46 ^a	0.017	41			85	76 ^x	10 ^x		
SEVERN RIVER	55°23'	88°59'	July 15			2.30	0.85	21	3	1.1					5	1		<0.014 0.46 ^a	0.029	50			110				
DAVEY LAKE	55°00'	89°45'	Aug. 13	22°	8.1 ^x	0.20	0.10	10	1	1					<5	2		<0.014 0.46 ^a	0.006	28		28 ^x	40	61 ^x	20 ^x	10 ^x	
DEERBROOK LAKE	54°32'	94°00'	June 15	17°				1.4								1		0.014 0.46 ^a	0.001	23		40 ^x	70	72 ^x	15 ^x	10 ^x	
			July 18	19°		0.40	0.20	14	1	1					<5	2		<0.014 0.46 ^a	0.014	41			70	83 ^x	15 ^x	10 ^x	
			Aug. 13	20°		0.70	0.20	13	2	1					<5	<1		0.014 0.46 ^a	0.015	40			50	79 ^x	20 ^x	10 ^x	
			Sept. 7	15°	7.4 ^x	0.80	0.20	14	2	0.8					0	1		<0.014 0.46 ^a	0.011	40		40 ^x	60	88 ^x	15 ^x	10 ^x	

^a Influent analysis performed in the Oregon Water Resources Commission Laboratory
 #2 J.T.U. = Jackson Turbidity Unit

d - Nitrate as N
 * - Total Nitrogen

x - Field Analysis
 * - In Bottle
 * - Bottles

TABLE 48

CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES WINISK RIVER BASIN

WINISK RIVER BASIN

Source	Latitude North	Longitude West	Date	Temperature [°C]	pH	Constituents in parts per million														Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Total Dissolved Solids ppm	Specific Conductance (Microhm/cm at 25°C)	Color Hazen Units	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Cadmium (Cd)	Nitrogen (Mg)	Nitrate (Na)	Nitrite (K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Bromide (Br)	Nitrate (NO ₃)	Phosphate (P)	Phenolphthalein Basic	Total	Calcium	Magnesium						
ANDREWS RIVER			July 16			1.70	0.40	18	2	0.0				5	1	<0.01 ⁰ 0.39 ⁰	0.013		52				90				
HICKORY LAKE	54°15'	86°22'	June 26	7.9 ^R		0.32	0.15	6	1	1				7	1	<0.01 ⁰ 0.65 ⁰	0.031		15				16 ^R	60	< 50 ^R	60 ^R	20 ^R
			July 18	19 ^R		0.28	0.15	7	1	1				< 5	2	<0.01 ⁰ 0.98 ⁰	0.041		17				16 ^R	40	< 50 ^R	60 ^R	20 ^R
			Aug. 4	16 ^R		0.40	0.30	6	1	1				< 5	2	<0.01 ⁰ 0.84 ⁰	0.037		16				50	< 50 ^R	60 ^R	25 ^R	
			Sept. 7	14 ^R	7.3 ^R	0.34	0.30	8	0	0.9				3	2	<0.01 ⁰ 0.62 ⁰	0.042		16				18 ^R	40	< 50 ^R	70 ^R	30 ^R
			Oct. 11	3 ^R			1.00		3	1.1				1	2	<0.01 ⁰ 0.96 ⁰	0.056		15				16 ^R	50	< 50 ^R	70 ^R	60 ^R
HILL LAKE	54°36'	87°22'	Aug. 4	15 ^R																		20 ^R		50 ^R	50 ^R	15 ^R	
DOCK LAKE	54°30'	86°56'	Aug. 4	15 ^R												<0.01 ⁰ 0.39 ⁰	0.017					16 ^R		< 50 ^R	30 ^R	10 ^R	
RAIL LAKE			July 15			2.50	0.39	13	1	0.6				0	1				31				60				
LOON LAKE	54°50'	85°26'	Aug. 4	15 ^R																		0 ^R		< 50 ^R	100 ^R	25 ^R	
SOMER BOG	54°16'	88°23'	July 18	19 ^R																					< 50 ^R	85 ^R	25 ^R
			July 27	21 ^R	0.6 ^R																		14 ^R		< 50 ^R	85 ^R	30 ^R
			Aug. 4	15 ^R																			16 ^R		< 50 ^R	85 ^R	25 ^R
BIDOGAMA LAKE	54°0'	88°30'	June 21	15 ^R	7.7 ^R	1.40	0.15	13	3	1.5				0	1	<0.01 ⁰ 0.42 ⁰	0.013		41				40 ^R	90		50 ^R	20 ^R
			July 28			1.50	0.15	16	2	1.0				< 5	< 1	<0.01 ⁰ 0.36 ⁰	0.016		47				80		30 ^R	10 ^R	
			Aug. 13	0.2 ^R		2.10	0.15	14	4	1.0				< 5	< 1	<0.01 ⁰ 0.44 ⁰	0.018		53				80		30 ^R	10 ^R	
			Oct. 6			2.70	0.20	19	3	0.7				0	1	<0.01 ⁰ 0.36 ⁰	0.008		57				110		30 ^R	10 ^R	
VENHORN LAKE - bottom	53°30'	88°35'	June 21	16 ^R	7.9 ^R	3.40	0.10	14	2	1				3	1	<0.01 ⁰ 0.34 ⁰	0.015		41				40 ^R	90	80 ^R	50 ^R	20 ^R
			July 20	16 ^R		2.60	0.15	14	2	1				< 5	< 1	<0.01 ⁰ 0.43 ⁰	0.018		44				60		75 ^R	50 ^R	15 ^R
			Aug. 13	19 ^R		2.50	0.20	14		1				< 5	2	<0.01 ⁰ 0.39 ⁰	0.020		41				80		75 ^R	40 ^R	15 ^R
			Sept. 13	13 ^R		1.70	0.30	14	3	0.6				< 1	1	0.00 ⁰ 0.42 ⁰	0.025		40				80		75 ^R	30 ^R	15 ^R
			Oct. 6	0 ^R		1.50	0.20	14	3	0.7				0	1	<0.01 ⁰ 0.35 ⁰	0.013		40				42 ^R	90	70 ^R	30 ^R	15 ^R

* Indicated analysis performed in the Ontario Water Resources Commission Laboratory

** J.T.W. = Jackson Turbidity Unit

C - Nitrate as N
N - Total NitrogenX - Field Analysis
+ - In Excess
* - Settled

TABLE 4B (continued)
CHEMICAL ANALYSES OF WATER SAMPLES

CHEMICAL ANALYSES WINISK RIVER BASIN

WINISK RIVER BASIN

Source	Latitude North	Longitude West	Date	Temp (air)	pH	Constituents in parts per million													Alkalinity as ppm CaCO ₃		Hardness as ppm CaCO ₃		Dissolved Solids (mg/l)	Specific Conductance (microhm/cm at 25°C)	Color (Pt-Co)	Turbidity (NTU)
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonia (NH ₄)	Sulfate (SO ₄)	Chloride (Cl)	Boron (B)	Nitrate (NO ₃)	Phosphate (P)	Total	Calcium	Total						
MUMKIN LAGOON	53°30'	88°35'	June 21	13 ^E	7.4 ^E	3.63	0.20	14	2	1				1	< 0.03	< 0.01 ^d 0.36 ^e	0.01	4 ^E		4 ^E	90	4 ^E	40 ^E	15 ^E		
			July 20	17 ^E		2.10	0.15	14	2	1			< 5	2		< 0.01 ^d 0.33 ^e	0.011	41		80	73 ^E	40 ^E	10 ^E			
			Aug. 13	21 ^E		1.90	0.15	14	2	1			< 5	< 1		< 0.01 ^d 0.32 ^e	0.012	39		70	73 ^E	40 ^E	10 ^E			
			Sept. 13	13 ^E		15.00	0.25	14	3	0.6			0	1		< 0.01 ^d 0.36 ^e	0.017	39		60	73 ^E	30 ^E	15 ^E			
			Oct. 6	8 ^E			0.20	14	2	0.6			0	< 1		< 0.01 ^d 0.56 ^e	0.013	39		60	72 ^E	30 ^E	14 ^E			
BOSANSKI BOG	55°04'	89°05'	June 26	14 ^E	7.4 ^E	0.26	0.15	5	1	1			0	1	< 0.03	< 0.01 ^d 0.40 ^e	0.023	12		16 ^E	55	< 30 ^E	83 ^E	25 ^E		
			July 18	15 ^E		0.22	0.20	8	2	1			< 5	3		< 0.01 ^d 0.83 ^e	0.020	16		70	< 50	83 ^E	38 ^E			
			Sept. 7	15 ^E	7.4 ^E	0.70	0.65	9	0	1.4			2	2		< 0.01 ^d 0.48 ^e	0.012	18		20 ^E	80	< 50 ^E	100 ^E	22 ^E		
			Oct. 11	3 ^E		0.60	0.40	8	1	1			2	2		< 0.01 ^d 0.45 ^e	0.010	19		16 ^E	70	< 50 ^E	100 ^E	20 ^E		
CHINAMU LAKE	55°04'	89°01'	June 19	14 ^E	7.9 ^E	0.15	0.15	4	1	1			0	1	< 0.03	< 0.01 ^d 0.47 ^e	0.019	24		40 ^E	34		10 ^E			
			July 18	15 ^E		0.01	0.15	7	1	1			< 0.5	2		< 0.01 ^d 0.43 ^e	0.014	23		45	< 30 ^E	13 ^E	25 ^E			
			Aug. 3	14 ^E		0.20	0.15	10	3	1			< 5	2		< 0.01 ^d 0.30 ^e	0.017	24		22 ^E	85	33 ^E	20 ^E	18 ^E		
			Sept. 7	15 ^E	7.6 ^E	0.26	0.25	10	2	1.4			2	1		< 0.01 ^d 0.41 ^e	0.016	24		22 ^E	60	55 ^E	20 ^E	15 ^E		
			Oct. 11	3 ^E			0.50	9	1	1.2			5	2		< 0.01 ^d 0.37 ^e	0.024	24		22 ^E	40	23 ^E	20 ^E	25 ^E		
POD LAKE	55°14'	86°36'	Aug. 4	15 ^E		0.80	0.10	24	2	1			< 5	3		< 0.01 ^d 0.37 ^e	0.012	71		70 ^E	90	135 ^E	10 ^E	0 ^E		
N. B. LAKE	55°32'	86°39'	July 27	18 ^E	8.6 ^E	6.90	1.25	30	14	172			< 5	295		< 0.01 ^d 0.66 ^e	0.044	113		140 ^E	700	1020 ^E	30	20 ^E		
RED LAKE	55°28'	86°36'	July 27	19 ^E	8.2 ^E	0.01	0.15	10	1	1			< 5	3		< 0.01 ^d 1.20 ^e	0.012	38		26 ^E	45	60 ^E	10	5 ^E		

* Indicates analysis performed in the Ontario Water Resources Commission Laboratory
** 25°C - Jackson Turbidity Scale

d - Nitrate as N
e - Total Nitrogen

x - Field Analysis
+ - In Glass
- - Settled

TABLE 49
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
BLUE GREEN	Anabaena	55	15	29	12	2	73	16	9	52	17	
	Aphanizomenon			65					28	46	49	
	Aphanocapsa			279	62	62	182			31		
	Aphanothece	310	496	713	1222	1726	204	1263	261	591	9	
	Chroococcus	43	10	61	34	17	26	87	33	69	2	
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria	31	44	40	43	41	59	200	15	127	81	
	Lyngbya	11	17	95	514	178	126	333	128	233	167	
	Marssonietta											
	Merismopedia				2				42			
	Microcystis					76	43					
	Nostoc											
	Oscillatoria	103	94	145	41	178	343	75	105	88	43	
	Pelodictyon							46	55	961	34	
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units (A.S.U) per millilitre
1 A.S.U. = 400 square microns

TABLE 50
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
DIATOMS	Achnanthes							1				
	Amphiprora											
	Amphora			8								
	Asterionella											
	Atttheya				22	22	8	14	1	13	9	
	Cyclotella	15	8									
	Cymbella					6						
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	2		9			7				18	
	Melosira	22	90	24	2	200	17	48	77	233	578	
	Navicula	4		4			1	4	3		15	
	Nitzschia										9	
	Pinnularia	1	6						7	10	13	
	Rhizosolenia											
	Stauroneis											
	Surirella											
	Stephanodiscus	8					15			159		
	Synedra	68	30	20	7	56	36	26	22	28	91	
	Tabellaria	31	79	29	5	15	4			284	115	

Units are given in Areal Standard Units per millilitre

TABLE 51
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake
Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
FLAGELLATES	Carteria	2										
	Ceratium	6	23	6	7	1	1	32	2	19	3	
	Chlamydomonas											
	Chlorogonium											
	Cryptomonas	2		5	12	3		29	6	10	5	
	Dinobryon		12	4	6			41				
	Euglena											
	Mallomonas											
	Ochromonas											
	Phacus											
	Peridinium		6	2								
	Rhodomonas											
	Synura		1							3	1	
	Trachelomonas											

Units are given in Areal Standard Units per millilitre

TABLE 52
PHYTOPLANKTON
ALBANY RIVER BASIN
Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Actinastrum											
	Ankistrodesmus	1	5	4	1	1	2	12	2	47	5	
	Arthrodesmus					16	6					
	Botryococcus			7								
	Characium					11	8					
	Closterium			3								
	Coelastrum											
	Cosmarium											
	Crucigenia			3	3	4	2	7	1	3	2	
	Dictyosphaerium										16	
	Elakatothrix											
	Gloeocystis											
	Golenkinia											
	Kirchneriella			2								
	Lagerheimia											
	Micractinium											
	Mougeotia			22								
	Nephrocytium											

Units are given in Areal Standard Units per millilitre

TABLE 52 (cont'd)
 PHYTOPLANKTON
 ALBANY RIVER BASIN
 Keezhik Lake Latitude 51°45'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Oedogonium	3	2	1		5	16	1			6	
	Oocystis						5					
	Ophiocytium			1				36			1	
	Pediastrum											
	Quadrigula			3	3	3		26	2	19	6	
	Scenedesmus	2	2									
	Schroederia											
	Selenastrum											
	Sphaerocystis											
	Spondylosium			1				3		6	1	
	Staurastrum		7	8	4	9	5	2		4		
	Tetraëdron				3		1					
	Treubaria	P										
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 53
PHYTOPLANKTON
ALBANY RIVER BASIN
Latitude 51°42'; Longitude 88°55',
Troutfly Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
BLUE GREEN	Anabaena	2		12	17		5	10		2	39	
	Aphanizomenon											
	Aphanocapsa			85	28		5	138			62	
	Aphanothece	40		5	158	150	85	337	176	1036	216	
	Chroococcus		14	7	32	10	14	77	23	10	4	
	Coelosphaerium											
	Dactylococcopsis			2								
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria											
	Lyngbya	48	48	11	11	20	8	6		89	8	
	Marssonella					43		8	9	49	30	
	Merismopedia											
	Microcystis			62			2	4		70		
	Nostoc							57		49	20	
	Oscillatoria	46	38	68	22	23	5	37	7	33	32	
	Pelodictyon						22	99	29	19	35	
	Pelagloea											
	Phormidium											
	Rhabdoderma											
	Tetrapedia						6	24				

Units are given in Areal Standard Units per millilitre

TABLE 54
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
DIATOMS	Achnanthes	1										
	Amphiprora											
	Amphora	11	5								33	
	Asterionella											
	Attheya											
	Cyclotella	18	11	15	14	6	5	13	15	21	8	
	Cymbella		1									
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	46		1	8						19	
	Melosira	32	14	15	6	50		71	10	91	122	
	Navicula										3	
	Nitzschia	4	2	1	3	2	1	2	21		8	
	Pinnularia											
	Rhizosolenia		1					10	30			
	Stauroneis											
	Surirella											
	Stephanodiscus	16								40	70	
	Synedra	16	9	19	13	9	5	75	32	55	114	
	Tabellaria	8	18	42	7				30		113	

Units are given in Areal Standard Units per millilitre

TABLE 55
PHYTOPLANKTON
ALBANY RIVER BASIN
Troutfly Lake Latitude 51°42'; Longitude 88°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
FLAGELLATES	Carteria				7							
	Ceratium	4	3	5	13	P	P	18	19	14	5	
	Chlamydomonas											
	Chlorogonium				5			5		18	17	
	Cryptomonas				2			9			5	
	Dinobryon	3	16									
	Euglena											
	Mallomonas											
	Ochromonas									11		
	Phacus											
	Peridinium											
	Rhodomonas										2	
	Synura											
	Trachelomonas	1			2							

Units are given in Areal Standard Units per millilitre

P = present

TABLE 56
PHYTOPLANKTON
ALBANY RIVER BASIN
Latitude 51°42'; Longitude 88°55'
Troutfly Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Actinastrum	2	1	2	1	1	5	3	3	10	4	
	Ankistrodesmus							9				
	Arthrodesmus		19		11	3	6			5		
	Botryococcus				1							
	Characium											
	Closterium								4			
	Coelastrum											
	Cosmarium	2							2	2	1	
	Crucigenia	1			P		1					
	Dictyosphaerium						P			4		
	Elakatothrix									1		
	Gloeocystis											
	Golenkinia											
	Kirchneriella											
	Lagerheimia			2	P		P					
	Micractinium			1								
	Mougeotia											
	Nephrocytium											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 56 (cont'd)
 PHYTOPLANKTON
 ALBANY RIVER BASIN
 Latitude 51°42'; Longitude 88°55'
 Troutfly Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium	5		2	7	7	14	5	7	5	18		
	Oocystis												
	Ophiocytium		5	1	5	24	8			1	24		
	Pediastrum												
	Quadrigula												
	Scenedesmus	3	1	3	5	2	2		3	2	19		
	Schroederia												
	Selenastrum							11 P					
	Sphaerocystis												
	Spondylosium	2		1	1	2							
	Staurastrum	3	2	2	2	2	1	3	1	1	2		
	Tetraëdron												
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 57
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Latitude 52°15'; Longitude 87°55'

Attawapiskat Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
BLUE GREEN	Anabaena		10	39	19	10	15	15	5	54	54	
	Aphanizomenon			40	81	22		4	20			
	Aphanocapsa						26		3			
	Aphanothece			238		5	24	5			1	
	Chroococcus		12	5								
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria		8	5	21	16	3	5	5			
	Lyngbya			13		12			2			
	Marssonella			4	6	10	2	4	4			
	Merismopedia				50		98					
	Microcystis											
	Nostoc											
	Oscillatoria	3	3	40	61	43	20	38	16	1	41	
	Pelodictyon											
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 58
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
DIA TOMS	Achnanthes										9	
	Amphiprora					P						
	Amphora	14	16		28	9	3	59	9	20	46	
	Asterionella											
	Attheya	7	5	16	10	24	21	9	8	5	10	
	Cyclotella			4								
	Cymbella											
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	22	17				7	20	70	23	61	
	Melosira	11	7	13	63	57	8	5				
	Navicula	8	P	4	13	2	1	9	4	1	5	
	Nitzschia											
	Pinnularia	1	7					7			10	
	Rhizosolenia											
	Stauroneis		11					3				
	Surirella							1	5			
	Stephanodiscus	22	11	18	10	7	18	4	20	5	10	
	Synedra	5	20	14		6	20	16	23			
	Tabellaria											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 59
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Attawapiskat Lake
Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
FLAGELLATES	Carteria											
	Ceratium											
	Chlamydomonas	21	22	32	21	4	3	52		4	10	
	Chlorogonium											
	Cryptomonas	24	28	49	21	1	23	32	27	17	23	
	Dinobryon	6	10	3	2			2	5	23	3	
	Euglena											
	Mallomonas											
	Ochromonas	3								3		
	Phacus											
	Peridinium		3									
	Rhodomonas								39	5	5	
	Synura											
	Trachelomonas							1		1		

Units are given in Areal Standard Units per millilitre

TABLE 60
PHYTOPLANKTON
ATTAWAPISKAT RIVER BASIN
Latitude 52°15'; Longitude 87°55'
Attawapiskat Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum	1	3	1	2	5	2	2	7	1	4		
	Ankistrodesmus				6								
	Arthrodesmus			19			P						
	Botryococcus					2							
	Characium												
	Closterium												
	Coelastrum												
	Cosmarium												
	Crucigenia		1	1	3	5	8	1	1	3	P		
	Dictyosphaerium					9			1				
	Elakatothrix								1				
	Gloeocystis								1				
	Golenkinia								1				
	Kirchneriella								2				
	Lagerheimia					P				1			
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 60 (cont'd)
 PHYTOPLANKTON
 ATTAWAPISKAT RIVER BASIN
 Attawapiskat Lake
 Latitude 52°15'; Longitude 87°55'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Oedogonium				8	1	2					
	Oocystis											
	Ophiocytium						1					
	Pediastrum			2								
	Quadrigula			1								
	Scenedesmus	1	1			7	5	2		2	P	
	Schroederia											
	Selenastrum					P	P			P		
	Sphaerocystis											
	Spondylosium			1								
	Staurastrum										P	
	Tetraëdron	1	P			2	1					
	Treubaria			P		3	1					
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 61
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 54°38'; Longitude 89°30'

Agusk Lake

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70		
BLUE GREEN	Anabaena	8	35	26	31	6	47	253	13	47		
	Aphanizomenon									5		
	Aphanocapsa			138	270	237		42	78	46		
	Aphanothece	826	6189	4080	5497	13396	9864	695	2138	795		
	Chroococcus	35	62	4	232	164		230	124	132		
	Coelosphaerium											
	Dactylococcopsis				22							
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria			34	62	11		266	61	109		
	Lyngbya	7	10		34	40	68	39	45	67		
	Marssoniella											
	Merismopedia											
	Microcystis				95				79	153		
	Nostoc			41			355					
	Oscillatoria	54	69	81	70	22	32	47	4	21		
	Pelodictyon						397	59	47	42		
	Pelogloea											
	Phormidium				41		35	41				
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 62
PHYTOPLANKTON
SEVERN RIVER BASIN
Agusk Lake
Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70		
DIATOMS	Achnanthes				17	126		1	2			
	Amphiprora	2										
	Amphora											
	Asterionella											
	Attheya											
	Cyclotella	21	21	40	16	17	15	28	17	3		
	Cymbella						3					
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	4			35			46				
	Melosira											
	Navicula			11	80	32		26	23	6		
	Nitzschia	12	6	2	54	35	3		33	8		
	Pinnularia											
	Rhizosolenia	6		6			13		18			
	Stauroneis				36							
	Surirella											
	Stephanodiscus											
	Synedra	22	28	52	27	3	23	74	106	51		
	Tabellaria	50								2		

Units are given in Areal Standard Units per millilitre

TABLE 63
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 54°38'; Longitude 89°30'

Agusk Lake

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70		
FLAGELLATES	Carteria											
	Ceratium	21	7	2	11	7	7	24	6	1		
	Chlamydomonas											
	Chlorogonium	5			4	8				5		
	Cryptomonas	29			18	21		7	64	28		
	Dinobryon											
	Euglena											
	Mallomonas									3		
	Ochromonas					5		17	3	5		
	Phacus											
	Peridinium	3				7	7			1		
	Rhodomonas									1		
	Synura											
	Trachelomonas											

Units are given in Areal Standard Units per millilitre

TABLE 64
PHYTOPLANKTON
SEVERN RIVER BASIN
Agusk Lake
Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70		
GREEN	Actinastrum											
	Ankistrodesmus	3	4	8	11	3	23	30	24	11		
	Arthrodesmus											
	Botryococcus		10	7				26	41			
	Characium											
	Closterium				14							
	Coelastrum		9			15			3	10		
	Cosmarium		2			14				4		
	Crucigenia		5	16	19	2	13	22	10	8		
	Dictyosphaerium	3										
	Elakatothrix								5			
	Gloeocystis	39			89				2			
	Golenkinia	P										
	Kirchneriella									6		
	Lagerheimia			1								
	Micractinium											
	Mougeotia											
	Nephrocytium											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 64 (cont'd)
PHYTOPLANKTON

SEVERN RIVER BASIN

Agusk Lake

Latitude 54°38'; Longitude 89°30'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 28/70		
GREEN	Oedogonium		91		151					23		
	Oocystis	2	5	69	2	12	11	39	50	3		
	Ophiocytium				2		1					
	Pediastrum	10	21	2	2	50		21	48	3		
	Quadrigula											
	Scenedesmus											
	Schroederia	21	13	9	89	27	35	6	17	29		
	Selenastrum			P		5						
	Sphaerocystis											
	Spondylosium			3		8		5				
	Staurastrum				2	9	1	2	28	1		
	Tetraëdron		P	1	5	5						
	Treubaria											
	Ulothrix							55				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 65
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake
Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
BLUE GREEN	Anabaena				12	11	27	78		40			
	Aphanizomenon				29			4	5	6	5		
	Aphanocapsa		136			78		8	84				
	Aphanothece	58	363	61	214	286	941	554	387	163			
	Chroococcus		2		8	15	21	4	18	35			
	Coelosphaerium	28											
	Dactylococcopsis												
	Gloeocapsa		2										
	Gloeotheca												
	Gomphosphaeria												
	Lyngbya	9	19		8	34	20	27	61	33	34		
	Marssonella					16	7	17	13	69	82		
	Merismopedia	1											
	Microcystis												
	Nostoc							15		58	107		
	Oscillatoria	31	38	50	81	37	56	36	16	98	14		
	Pelodictyon								7				
	Pelagloea												
	Phormidium												
	Rhaboderma												
	Tetrapedia												

Units are given in Areal Standard Units per millilitre

TABLE 66
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
DIATOMS	Achnanthes										66		
	Amphiprora												
	Amphora	12	17	30	29	21		2		33	23		
	Asterionella												
	Attheya												
	Cyclotella	23	32	72	25	11	12	10	6	11	43		
	Cymbella						6						
	Diatoma						7						
	Epithemia									3			
	Eunotia												
	Fragilaria	31		30	8	68		35	10	7	104		
	Melosira	92	40	61	44	12	38	8	116	97	423		
	Navicula												
	Nitzschia	6		9		10	1	1	14	27	10		
	Pinnularia			21		3		4		22	7		
	Rhizosolenia		12										
	Stauroneis												
	Surirella												
	Stephanodiscus	37	27		13		38	20	109	144	114		
	Synedra	30	55	44	19	9	11	10	37	26	19		
	Tabellaria		24			18					16		

Units are given in Areal Standard Units per millilitre

TABLE 67
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 8/70	Sept. 28/70		
FLAGELLATES	Carteria					13							
	Ceratium	27	36	22	6	10	15	8	12	16	9		
	Chlamydomonas												
	Chlorogonium					2	3	7	12		25		
	Cryptomonas	5			5	2							
	Dinobryon	10	15	4	12	2		1	5	21	2		
	Euglena												
	Mallomonas												
	Ochromonas					1	P	2					
	Phacus												
	Peridinium			2			2	2			4		
	Rhodomonas							4			14		
	Synura												
	Trachelomonas				1				2				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 68
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 53°45'; Longitude 90°00'

Big Trout Lake

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70	
GREEN	Actinastrum	3	5	16	1	6	1	4	1	8	6	
	Ankistrodesmus											
	Arthrodesmus											
	Botryococcus									1	23	
	Characium								8			
	Closterium											
	Coelastrum						16					
	Cosmarium							1			1	
	Crucigenia			1		1						
	Dictyosphaerium											
	Elakatothrix											
	Gloeocystis			1								
	Golenkinia											
	Kirchneriella	P	1	2	1	P						
	Lagerheimia											
	Micractinium											
	Mougeotia											
	Nephrocystium											

P = present

Units are given in Areal Standard Units per millilitre

TABLE 68 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake
Latitude 53°45'; Longitude 90°00'

GROUP	GENUS	June 18/70	June 24/70	July 5/70	July 19/70	July 28/70	Aug. 6/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70	
GREEN	Oedogonium					P	2	P				
	Oocystis											
	Ophiocytium					1		12	62	5		
	Pediastrum											
	Quadrigula					1	1	1	2			
	Scenedesmus											
	Schroederia	P	4	1	1							
	Selenastrum											
	Sphaerocystis											
	Spondylosium						1					
	Staurastrum		6		4	9	3		9		17	
	Tetraëdron				3	1	1					
	Treubaria								3			
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 69
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 53°51'; Longitude 89°53'
Big Trout Lake Bog

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
BLUE GREEN	Anabaena	107			3	16		2	11	8		
	Aphanizomenon											
	Aphanocapsa							64				
	Aphanothece							10		13		
	Chroococcus	9	P	35	11		7	1				
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloetheca											
	Gomphosphaeria				3							
	Lyngbya							1		2		
	Marssonella											
	Merismopedia									3		
	Microcystis											
	Nostoc											
	Oscillatoria		2									
	Pelodictyon											
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 70
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
DIATOMS	Achnanthes						P	1				
	Amphiprora											
	Amphora	1	2				38		36	19		
	Asterionella											
	Attheya											
	Cyclotella	11	3	5	7	2	P	P	1	P		
	Cymbella											
	Diatoma											
	Epithemia											
	Eunotia		P									
	Fragilaria		1			2		3				
	Melosira											
	Navicula		2	1						5		
	Nitzschia	7		2	3	1	2					
	Pinnularia							31				
	Rhizosolenia							1				
	Stauroneis											
	Surirella											
	Stephanodiscus	2										
	Synedra	44	3	1		2	1	2	3	4		
	Tabellaria						2					

Units are given in Areal Standard Units per millilitre

P = present

TABLE 71
PHYTOPLANKTON
SEVERN RIVER BASIN
Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
FLAGELLATES	Carteria											
	Ceratium											
	Chlamydomonas	43	1	11	12	18	11	23	7	1		
	Chlorogonium				1							
	Cryptomonas	10		12	49	48	13	31	22	14		
	Dinobryon	1137	1980	107	3	32	535	42	441	352		
	Euglena											
	Mallomonas											
	Ochromonas			1	1		3		3	4		
	Phacus											
	Peridinium	3	3		2		2					
	Rhodomonas								10	15		
	Synura		1				P					
	Trachelomonas			2	7							

Units are given in Areal Standard Units per millilitre

P = present

TABLE 72
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 53°51'; Longitude 89°53'
Big Trout Lake Bog

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
GREEN	Actinastrum		1			P			P			
	Ankistrodesmus						5		9			
	Arthrodesmus			P	4							
	Botryococcus											
	Characium											
	Closterium				8							
	Coelastrum					9	1	1				
	Cosmarium											
	Crucigenia	2	2	2			1		2			
	Dictyosphaerium	6										
	Elakatothrix				1		1		1	2		
	Gloeocystis						8					
	Golenkinia											
	Kirchneriella											
	Lagerheimia											
	Micractinium											
	Mougeotia						8	40	3			
	Nephroclytium											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 72 (cont'd)
 PHYTOPLANKTON
 SEVERN RIVER BASIN
 Big Trout Lake Bog Latitude 53°51'; Longitude 89°53'

GROUP	GENUS	June 28/70	July 5/70	July 21/70	July 28/70	Aug. 5/70	Aug. 16/70	Sept. 4/70	Sept. 18/70	Sept. 28/70		
GREEN	Oedogonium											
	Oocystis	1		1			1	1	1			
	Ophiocytium			1		1	1					
	Pediastrum	12	1	11		3						
	Quadrigula				5							
	Scenedesmus	14	1			7	4	5	3	2		
	Schroederia						P					
	Selenastrum	P				P	P					
	Sphaerocystis											
	Spondylosium							1				
	Staurostrum											
	Tetraëdron	1				1						
	Treubaria											
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 73
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 52°31'; Longitude 32°30'
Kness Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
BLUE GREEN	Anabaena	48	84	355	325	105	263	32	3	7	2	
	Aphanizomenon	94	103	332	356	184	368	110	41	6	17	
	Aphanocapsa											
	Aphanothece			67		180	316			5	8	
	Chroococcus	15	11	21	8	6	37	25	4	2	3	
	Coelosphaerium	12								65		
	Dactylococcopsis											
	Gloeocapsa											
	Gloetheca											
	Gomphosphaeria											
	Lyngbya		41	14	10	55	36	60	75	55	20	
	Marsoniella								7	17		
	Merismopedia						3					
	Microcystis			76						14		
	Nostoc			376								
	Oscillatoria		5					2	3			
	Pelodictyon				39							
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 74
PHYTOPLANKTON
SEVERN RIVER BASIN
Kaness Lake
Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
DIATOMS	Achnanthes	P										
	Amphiprora											
	Amphora	36			25	59	20	15	13	46	10	
	Asterionella											
	Attheya	5	P	1	3		2		1	1	P	
	Cyclotella											
	Cymbella											
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	4	6		10			2	2	108	9	
	Melosira									47		
	Navicula	4								1	2	
	Nitzschia						2			4		
	Pinnularia		22							4	4	
	Rhizosolenia											
	Stauroneis											
	Surirella											
	Stephanodiscus	5	1	3		40	3		7		1	
	Synedra		6	14	32	43	63	24	4	12		
	Tabellaria	154							52	50		

Units are given in Areal Standard Units per millilitre

P = present

TABLE 75
PHYTOPLANKTON
SEVERN RIVER BASIN
Kness Lake
Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
FLAGELLATES	Carteria											
	Ceratium	9	15	8	20	2	3	6	2	4	4	
	Chlamydomonas											
	Chlorogonium	4	1	10	72	6	5	28	60	19	45	
	Cryptomonas	20			6		23	2	1			
	Dinobryon											
	Euglena											
	Mallomonas							P			3	
	Ochromonas											
	Phacus											
	Peridinium											
	Rhodomonas											
	Synura								31	3	21	
	Trachelomonas										1	

Units are given in Areal Standard Units per millilitre

P = present

TABLE 76
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 52°31' N, Longitude 92°30' W
Kaness Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
GREEN	Actinastrum		1	2	2					1		
	Ankistrodesmus									4		
	Arthrodesmus	8							6			
	Botryococcus							P	1			
	Characium											
	Closterium	2	2	10	8	9		2	2	9	3	
	Coelastrum									2		
	Cosmarium		P					P		6	P	
	Crucigenia									3		
	Dictyosphaerium											
	Elakatothrix	1		5								
	Gloeocystis											
	Golenkinia											
	Kirchneriella						1				2	
	Lagerheimia											
	Micractinium											
	Mougeotia											
	Nephrocytium											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 76 (cont'd)
 PHYTOPLANKTON
 SEVERN RIVER BASIN
 Kaness Lake
 Latitude 52°31'; Longitude 92°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
GREEN	Oedogonium							2	3	3	2	
	Oocystis									58		
	Ophiocytium											
	Pediastrum											
	Quadrigula											
	Scenedesmus	P	P			1				7	P	
	Schroederia											
	Selenastrum											
	Sphaerocystis	5						11	1			
	Spondylosium			1								
	Staurastrum									5		
	Tetraëdron	P				1				1		
	Treubaria											
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 77
PHYTOPLANKTON
SEVERN RIVER BASIN
Latitude 52°36'; Longitude 93°00'

North Spirit Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
BLUE GREEN	Anabaena	3		81	28	38	35	1	4	2	5	
	Aphanizomenon	15		485		3	32	7	80	87	58	
	Aphanocapsa			144	57							
	Aphanothece		20	510	247	661	162	19	24			
	Chroococcus	4	9	36	12	22	53	15	7	25	31	
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria				78	170	97	19	12	59	115	
	Lyngbya				2							
	Marssoniella											
	Merismopedia											
	Microcystis				229			2	235			
	Nostoc											
	Oscillatoria	4	87	72	42	18	1			2	4	
	Pelodictyon											
	Pelagloea								44			
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 78
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70	
DIATOMS	Achnanthes										3	
	Amphiprora											
	Amphora	22	2	14						4		
	Asterionella											
	Attheya											
	Cyclotella	1	6	45	3	13	1	7	11	13	13	
	Cymbella											
	Diatoma		4	4								
	Epithemia											
	Eunotia											
	Fragilaria											
	Melosira	42	14		9	21	22	6	4	30	28	
	Navicula							1				
	Nitzschia	14		21	5					2	9	
	Pinnularia											
	Rhizosolenia		12							2	4	
	Stauroneis											
	Surirella											
	Stephanodiscus		9									
	Synedra	34	14	19	55	3		19	1		1	
	Tabellaria	134			5	4	27					

Units are given in Areal Standard Units per millilitre

TABLE 79
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake Latitude 52 36'; Longitude 93 00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
FLAGELLATES	Carteria												
	Ceratium	94	192	70	46	6	7	1	5	1	1		
	Chlamydomonas												
	Chlorogonium	115	267	78	17		3	12	40	11	18		
	Cryptomonas	11	2										
	Dinobryon												
	Euglena					5					3		
	Mallomonas												
	Ochromonas												
	Phacus												
	Peridinium		3										
	Rhodomonas												
	Synura	1						7	30	16	8		
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 80
PHYTOPLANKTON
SEVERN RIVER BASIN
North Spirit Lake
Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Actinastrum				1	2		1	1	11	5		
	Ankistrodesmus	22	6										
	Arthrodesmus						27						
	Botryococcus							1	1				
	Characium				5			2		7			
	Closterium	2	11	22									
	Coelastrum					2			3				
	Cosmarium												
	Crucigenia								P	2			
	Dictyosphaerium										4		
	Elakatothrix		9	2									
	Gloeocystis												
	Golenkinia					P							
	Kirchneriella												
	Lagerheimia				3	P							
	Micractinium												
	Mougeotia												
	Nephrocytium												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 80 (cont'd)
 PHYTOPLANKTON
 SEVERN RIVER BASIN
 North Spirit Lake Latitude 52°36'; Longitude 93°00'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 5/70	Sept. 11/70	Sept. 25/70	Oct. 5/70		
GREEN	Oedogonium					10	P		2	P	1		
	Oocystis												
	Ophiocytium												
	Pediastrum												
	Quadrigula			2	8		7	1	P	2	3		
	Scenedesmus												
	Schroederia												
	Selenastrum												
	Sphaerocystis												
	Spondylosium												
	Staurastrum												
	Tetradion							P					
	Treubaria	1											
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 81
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandy Lake
Latitude 53°00"; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70								
BLUE GREEN	Anabaena	40	9	2								
	Aphanizomenon	2593	1071	1254								
	Aphanocapsa											
	Aphanothece											
	Chroococcus		1									
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria											
	Lyngbya	24	1	25								
	Marssonella		1									
	Merismopedia											
	Microcystis											
	Nostoc											
	Oscillatoria			4								
	Pelodictyon											
	Pelagloea											
	Phormidium											
	Rhabdoderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 82
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandy Lake
Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70															
DIATOMS	Achnanthes																		
	Amphiprora																		
	Amphora																		
	Asterionella																		
	Attheya	11	1																
	Cyclotella	1		1															
	Cymbella																		
	Diatoma																		
	Epithemia																		
	Eunotia																		
	Fragilaria	2	1																
	Melosira	28	3	99															
	Navicula			2															
	Nitzschia																		
	Pinnularia																		
	Rhizosolenia			5															
	Stauroneis																		
	Surirella																		
	Stephanodiscus																		
	Synedra		P	14															
	Tabellaria																		

Units are given in Areal Standard Units per millilitre

P = present

TABLE 83
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70															
FLAGELLATES	Carteria																		
	Ceratium																		
	Chlamydomonas	2	6																
	Chlorogonium																		
	Cryptomonas		22	35															
	Dinobryon		1																
	Euglena																		
	Mallomonas																		
	Ochromonas																		
	Phacus	8																	
	Peridinium																		
	Rhodomonas			10															
	Synura																		
	Trachelomonas																		

Units are given in Areal Standard Units per millilitre

TABLE 84
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandy Lake
Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70															
GREEN	Actinastrum	10		1															
	Ankistrodesmus																		
	Arthrodesmus																		
	Botryococcus																		
	Characium	4	P	4															
	Closterium	7	3																
	Coelastrum																		
	Cosmarium																		
	Crucigenia			7															
	Dictyosphaerium																		
	Elakatothrix																		
	Gloeocystis																		
	Golenkinia																		
	Kirchneriella																		
	Lagerheimia																		
	Micractinium																		
	Mougeotia																		
	Nephrocytium																		

Units are given in Areal Standard Units per millilitre

P = present

TABLE 84 (cont'd)
 PHYTOPLANKTON
 SEVERN RIVER BASIN
 Sandy Lake Latitude 53°00'; Longitude 93°00'

GROUP	GENUS	Aug. 13/70	Sept. 5/70	Oct. 5/70								
GREEN	Oedogonium Oocystis Ophiocytium Pedicestrum Quadrigula Scenedesmus Schroederia Selenastrum Sphaerocystis Spondylosium Staurastrum Tetraëdron Treubaria Ulothrix	1	P									

Units are given in Areal Standard Units per millilitre

P = present

TABLE 85
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake
Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70		
BLUE GREEN	Anabaena	43	43	23	95	13	8	194	83	23		
	Aphanizomenon											
	Aphanocapsa		235			406	694			128		
	Aphanothece	13477	23424	12747	23352	5474	3677	3392	5079	5372		
	Chroococcus	30	20	43	46	539		88	86	574		
	Coelosphaerium											
	Dactylococcopsis	1										
	Gloeocapsa	445										
	Gloeothece											
	Gomphosphaeria											
	Lyngbya	89				214	125	52	416	42		
	Marssonella	23	29	93	188			123	178	127		
	Merismopedia						2	20				
	Microcystis				242	120				77		
	Nostoc											
	Oscillatoria		39	149	51	44	391	12	46	59		
	Pelodictyon									48		
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia					154	1	55				

Units are given in Areal Standard Units per millilitre

TABLE 86
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70		
DIATOMS	Achnanthes									4		
	Amphiprora											
	Amphora					26	9		31	48		
	Asterionella											
	Attheya			38	11	33	30	23	32	21		
	Cyclotella	13	23				7					
	Cymbella											
	Diatoma											
	Epithemia											
	Eunotia											
	Fragilaria	50				30			35			
	Melosira											
	Navicula								133	21		
	Nitzschia	8	11					14				
	Pinnularia	10	2						30			
	Rhizosolenia											
	Stauroneis											
	Surirella											
	Stephanodiscus											
	Synedra	14	38	142	174	266	91	77	27	185		
	Tabellaria	13	50					56	160			

Units are given in Areal Standard Units per millilitre

TABLE 87
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70		
FLAGELLATES	Carteria											
	Ceratium											
	Chlamydomonas	12	17	8	10	6	34	16	23	45		
	Chlorogonium											
	Cryptomonas											
	Dinobryon											
	Euglena		4	23		36		38	26			
	Mallomonas	3										
	Ochromonas			22								
	Phacus											
	Peridinium				21			11				
	Rhodomonas											
	Synura											
	Trachelomonas								59	5		

Units are given in Areal Standard Units per millilitre

TABLE 88
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 52°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70		
GREEN	Actinastrum				2		9		9	20		
	Ankistrodesmus	5	3	18								
	Arthrodesmus											
	Botryococcus											
	Characium											
	Closterium											
	Coelastrum											
	Cosmarium											
	Crucigenia		6		12	127		8	11	5		
	Dictyosphaerium	2										
	Elakatothrix									3		
	Gloeocystis											
	Golenkinia							2				
	Kirchneriella											
	Lagerheimia				7			4				
	Micractinium											
	Mougeotia											
	Nephroclytium											

Units are given in Areal Standard Units per millilitre

TABLE 88 (cont'd)
PHYTOPLANKTON
SEVERN RIVER BASIN
Sandybank Lake Latitude 53°50'; Longitude 89°45'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 15/70	Sept. 30/70		
GREEN	Oedogonium			60	9		180	28	13	26		
	Oocystis			6				8		2		
	Ophiocytium											
	Pediastrum	1		8	8				17	2		
	Quadrigula											
	Scenedesmus	2	2	7	7	30	34	23	8	10		
	Schroederia											
	Selenastrum											
	Sphaerocystis											
	Spondylosium			7		7	7	14				
	Staurastrum											
	Tetraëdron	3	2	2	21	4			2	3		
	Treubaria											
	Ulothrix											

Units are given in Areal Standard Units per millilitre

TABLE 89
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake
Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
BLUE GREEN	Anabaena	133		7	711	632	14	136	768	28	169	
	Aphanizomenon											
	Aphanocapsa		583	481	350	141	146			215		
	Aphanothece	3839	19922	7555	10655	16949	975	3695	3963	1402	3385	
	Chroococcus	80	320	2	399	1258	3	4	1500	2	542	
	Coelosphaerium											
	Dactylococcopsis				400							
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria				435	14		116	210			
	Lyngbya			3	11	22	P	6		24		
	Marssonella											
	Merismopedia					10		4				
	Microcystis			3117	3571		42		6194	62	3353	
	Nostoc					693	7					
	Oscillatoria											
	Pelodictyon		22	4						133	159	
	Pelagloea										355	
	Phormidium											
	Rhaboderma		27									
	Tetrapedia										117	

Units are given in Areal Standard Units per millilitre

TABLE 90
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
DIATOMS	Achnanthes				2		28						
	Amphiprora												
	Amphora			121	86	86	12	335	807	1649	1075		
	Asterionella												
	Atttheya			36	16	23	17	7	10		26		
	Cyclotella	15											
	Cymbella												
	Diatoma												
	Epithemia												
	Eunotia									3			
	Fragilaria	167	111		442	77			519	67	71		
	Melosira												
	Navicula					4		6			18		
	Nitzschia			18				9		23	128		
	Pinnularia												
	Rhizosolenia							27	76				
	Stauroneis												
	Surirella				60								
	Stephanodiscus												
	Synedra	125	65	55	21	73	3		67	141	80		
	Tabellaria	187			415			367		91	352		

Units are given in Areal Standard Units per millilitre

TABLE 91
PHYTOPLANKTON
WINISK RIVER BASIN
Atikameg Lake Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
FLAGELLATES	Carteria											
	Ceratium											
	Chlamydomonas	29	12	12	29	13	1	51	204	12	44	
	Chlorogonium											
	Cryptomonas		20		13	14		55		11	26	
	Dinobryon.	67	30	37	64	72	2			12	98	
	Euglena											
	Mallomonas	20							76			
	Ochromonas											
	Phacus											
	Peridinium					23						
	Rhodomonas											
	Synura											
	Trachelomonas											

Units are given in Areal Standard Units per millilitre

TABLE 92
PHYTOPLANKTON
WINISK RIVER BASIN
Latitude 54°15'; Longitude 88°24'
Atikameg Lake

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
GREEN	Actinastrum											
	Ankistrodesmus											
	Arthrodesmus			26		16	1	4	16	7	34	
	Botryococcus						2	18		58		
	Characium						1			42	189	
	Closterium											
	Coelastrum		54	15		10		110	54	102	153	
	Cosmarium		7	39				7				
	Crucigenia	3	41		37	20	1	32	162	92	39	
	Dictyosphaerium				13		8	89				
	Elakatothrix											
	Gloeocystis											
	Golenkinia											
	Kirchneriella											
	Lagerheimia											
	Micractinium											
	Mougeotia											
	Nephrocytium											
				4	3	520	P	4	99		5	

Units are given in Areal Standard Units per millilitre

P = present

TABLE 92 (cont'd)
 PHYTOPLANKTON
 WINISK RIVER BASIN
 Atikameg Lake
 Latitude 54°15'; Longitude 88°24'

GROUP	GENUS	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 4/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70		
GREEN	Oedogonium		20	28		26		187	357		26		
	Oocystis					10	2	95	68	121	40		
	Ophiocytium												
	Pediastrum		211	120	810	1155	2	130	276	90	414		
	Quadrigula	142	23			103	10	14		42			
	Scenedesmus	476	242	262	775	910	20	465	1832	527	2070		
	Schroederia												
	Selenastrum		14								3		
	Sphaerocystis												
	Spondylosium		47	5			P						
	Staurastrum		7		6				20	18			
	Tetraëdron	7			7	17	2		22	4	56		
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 93
PHYTOPLANKTON
WINISK RIVER BASIN
Latitude 53°35'; Longitude 88°30'

Kasabonika Lake

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70		
BLUE GREEN	Anabaena	2	1	1	28					7		
	Aphanizomenon			381			57	15				
	Aphanocapsa	176	371	50	716	655	513	144	33	16		
	Aphanothece	5	17	3	33	4	4		2	4		
	Chroococcus											
	Coelosphaerium											
	Dactylococcopsis			9								
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria	2	5	56	25	16		9	5	7		
	Lyngbya			48		4	3	2				
	Marssonella											
	Merismopedia											
	Microcystis				158				50			
	Nostoc				39							
	Oscillatoria	7	1	36	57	67	243	282	66	2		
	Pelodictyon							3				
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 94
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53° 35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70		
DIATOMS	Achnanthes	1			P		1		P	P		
	Amphiprora											
	Amphora	27	2	19	9		22	50	9	18		
	Asterionella											
	Attheya											
	Cyclotella	6	11	29	30	10	13	5	4	2		
	Cymbella									2		
	Diatoma	1								2		
	Epithemia									P		
	Eunotia							1				
	Fragilaria	35		2	12							
	Melosira	25	4	3	7	8		15	4			
	Navicula					8						
	Nitzschia	5	5	3	11			2		7		
	Pinnularia											
	Rhizosolenia		7			4		10	7	4		
	Stauroneis											
	Surirella									2		
	Stephanodiscus	49	28	94	138	29	12	21	44	33		
	Synedra	57	12	30	25	25	29	7		8		
	Tabellaria											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 95
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria											
	Ceratium											
	Chlamydomonas	15	8	12	18	7	40	40	9	1		
	Chlorogonium											
	Cryptomonas	12	8	13	22		6	28	26	14		
	Dinobryon	10	8	16	3		15	22	35	3		
	Euglena	4										
	Mallomonas											
	Ochromonas			2					7	2		
	Phacus											
	Peridinium											
	Rhodomonas	8	7	4	4		4	17	19	2		
	Synura											
	Trachelomonas						4					

Units are given in Areal Standard Units per millilitre

P = present

TABLE 96
PHYTOPLANKTON
WINISK RIVER BASIN
Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70		
GREEN	Actinastrum	1		2	2	12		1	1	1		
	Ankistrodesmus											
	Arthrodesmus					3						
	Botryococcus											
	Characium											
	Closterium											
	Coelastrum	2		2								
	Cosmarium											
	Crucigenia	2	1	38	11	6	6	7	2	3	1	
	Dictyosphaerium											
	Elakatothrix											
	Gloeocystis									1		
	Golenkinia	P										
	Kirchneriella											
	Lagerheimia											
	Micractinium			4								
	Mougeotia											
	Nephrocytium							2				

Units are given in Areal Standard Units per millilitre

P = present

TABLE 96 (cont'd)
 PHYTOPLANKTON
 WINISK RIVER BASIN
 Kasabonika Lake Latitude 53°35'; Longitude 88°30'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 13/70	Sept. 2/70	Sept. 14/70	Sept. 25/70	Oct. 6/70		
GREEN	Oedogonium			5	8	1	3	P	1	3		
	Oocystis			2								
	Ophiocytium					2		1				
	Pediastrum		1	1				3				
	Quadrigula				15	4	4	6	P	1		
	Scenedesmus	4										
	Schroederia											
	Selenastrum				P	P	P	15		P		
	Sphaerocystis											
	Spondylosium			2		4	2					
	Staurastrum											
	Tetraëdron	1		1	3	1	P		P			
	Treubaria	1		P								
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 97
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog
Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70															
BLUE GREEN	Anabaena	12	101															
	Aphanizomenon																	
	Aphanocapsa	204																
	Aphanothece	69	264															
	Chroococcus	24	24															
	Coelosphaerium																	
	Dactylococcopsis																	
	Gloeocapsa																	
	Gloetheca																	
	Gomphosphaeria	8	39															
	Lyngbya		5															
	Marssonella																	
	Merismopedia																	
	Microcystis	100	431															
	Nostoc																	
	Oscillatoria	11																
	Pelodictyon																	
	Pelagloea																	
	Phormidium																	
	Rhaboderma																	
	Tetrapedia																	

Units are given in Areal Standard Units per millilitre

TABLE 98
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70															
DIATOMS	Achnanthes		P															
	Amphiprora																	
	Amphora																	
	Asterionella		13															
	Attheya																	
	Cyclotella																	
	Cymbella																	
	Diatoma																	
	Epithemia																	
	Eunotia																	
	Fragilaria																	
	Melosira	22																
	Navicula																	
	Nitzschia	2																
	Pinnularia																	
	Rhizosolenia		31															
	Stauroneis																	
	Surirella																	
	Stephanodiscus																	
	Synedra	7	6															
	Tabellaria		50															

Units are given in Areal Standard Units per millilitre

P = present

TABLE 99
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70														
FLAGELLATES	Carteria																
	Ceratium																
	Chlamydomonas	6	3														
	Chlorogonium																
	Cryptomonas	12	24														
	Dinobryon	855	968														
	Euglena																
	Mallomonas																
	Ochromonas	43	14														
	Phacus																
	Peridinium																
	Rhodomonas																
	Synura																
	Trachelomonas																

Units are given in Areal Standard Units per millilitre

TABLE 100
PHYTOPLANKTON
WINISK RIVER BASIN
NOWRS Bog Latitude 54°14'; Longitude 88°23'

GROUP	GENUS	July 18/70	July 27/70															
GREEN	Actinastrum																	
	Ankistrodesmus		2															
	Arthrodesmus	3	2															
	Botryococcus																	
	Characium																	
	Closterium																	
	Coelastrum	17																
	Cosmarium																	
	Crucigenia																	
	Dictyosphaerium	2	3															
	Elakatothrix																	
	Gloeocystis																	
	Golenkinia																	
	Kirchneriella																	
	Lagerheimia																	
	Microactinium																	
	Mougeotia																	
	Nephrocytium																	

Units are given in Areal Standard Units per millilitre

TABLE 100 (cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Latitude 54°14'; Longitude 88°23'

NOWRS Bog

GROUP	GENUS	July 18/70	July 27/70														
GREEN	Oedogonium Oocystis Ophiocytium Pediastrum Quadrigula Scenedesmus Schroederia Selenastrum Sphaerocystis Spondylosium Staurostrum Tetraëdron Trebabilia Ulothrix	31 1 2 11	4 2 5														

Units are given in Areal Standard Units per millilitre

TABLE 101
 PHYTOPLANKTON
 WINISK RIVER BASIN
 Shagamu Lake
 Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70
BLUE GREEN	Anabaena		6		6		15		6	29		11
	Aphanizomenon											58
	Aphanocapsa				71		65		327	6173	493	
	Aphanothece	410	539	2618	2390	5615	12547	9777	1149	902	2390	5660
	Chroococcus	12		28	274	769	720	116	61	917	121	511
	Coelosphaerium											
	Dactylococcopsis							99				
	Gloeocapsa											
	Gloeothea											
	Gomphosphaeria				4			93	21			
	Lyngbya	65	106	195	265	363	301	268	252	379	184	846
	Marssonella											
	Merismopedia				1	18			11			17
	Microcystis				99	809						
	Nostoc											
	Oscillatoria	19				76	160	210			7	31
	Pelodictyon									37	48	91
	Pelagloea											
	Phormidium											
	Rhaboderma		11									
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 102
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70
DIATOMS	Achnanthes	P				12		1	P	3	3	14
	Amphiprora											
	Amphora	4									120	38
	Asterionella											228
	Attheya											
	Cyclotella	20	19	30	9	26	25	7	3	16		22
	Cymbella						10					
	Diatoma		2									
	Epithemia											
	Eunotia											
	Fragilaria	7		23							57	
	Melosira											
	Navicula	9	2	4		29	20		4		17	15
	Nitzschia	6			4	58	17	13	2	40	16	61
	Pinnularia											
	Rhizosolenia		1	13	1						40	
	Stauroneis											
	Surirella											
	Stephanodiscus											
	Synedra	17	29	31	17	43	22	86	18	23	19	103
	Tabellaria		16							40		17

Units are given in Areal Standard Units per millilitre

P = present

TABLE 103
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
FLAGELLATES	Carteria		2										
	Ceratium	84	17	30	5	11	30	11	1	5	17	120	
	Chlamydomonas												
	Chlorogonium												
	Cryptomonas	8	3	22	4	16		11	4	12			
	Dinobryon	34	71	43	20	49	23	22	60				
	Euglena												
	Mallomonas												
	Ochromonas				2	4					16		
	Phacus												
	Peridinium							26					
	Rhodomonas	20	11										
	Synura												
	Trachelomonas					8					3	54	

Units are given in Areal Standard Units per millilitre

TABLE 104
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake
Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70
GREEN	Actinastrum					7		25	7	4	19	54
	Ankistrodesmus	12	2	8	4						27	
	Arthrodesmus		4	6								
	Botryococcus											
	Characium											
	Closterium	4										
	Coelastrum				2	4			3	43	5	77
	Cosmarium	2		9								
	Crucigenia	1	4	6	10	46	19	4	4		15	19
	Dictyosphaerium											
	Elakatothrix						625					
	Gloeocystis					4						
	Golenkinia											
	Kirchneriella											
	Lagerheimia											
	Micractinium				2			5				
	Mougeotia		1									
	Nephrocystium											

Units are given in Areal Standard Units per millilitre

TABLE
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Lake
Latitude 55°05'; Longitude 87°04'

GROUP	GENUS	June 19/70	June 26/70	July 4/70	July 18/70	July 27/70	Aug. 3/70	Aug. 11/70	Sept. 7/70	Sept. 14/70	Sept. 30/70	Oct. 11/70	
GREEN	Oedogonium		7	18	5			15	10	41	168	179	
	Oocystis												
	Ophlocytium							2	12		15	59	
	Pediastrum	76	7	13	43								
	Quadrigula			9	11	9			16	28	27	56	
	Scenedesmus	24	30				49	4					
	Schroederia												
	Selenastrum			1	P				1				
	Sphaerocystis												
	Spondylosium				1			8		6		34	
	Staurastrum										8		
	Tetradron	3	6					2		4	3	19	
	Treubaria												
	Ulothrix												

Units are given in Areal Standard Units per millilitre

P = present

TABLE 105
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog
Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70				
BLUE GREEN	Anabaena					7		2				
	Aphanizomenon											
	Aphanocapsa					82	25					
	Aphanothece					249						
	Chroococcus	358	3659	2686	1899		10	52				
	Coelosphaerium	P		21				8				
	Dactylococcopsis											
	Gloeocapsa	4										
	Gloeotheca											
	Gomphosphaeria					4						
	Lyngbya							12				
	Marssonella							3				
	Merismopedia		4				4					
	Microcystis		469	746	335							
	Nostoc											
	Oscillatoria			13		10		14				
	Pelodictyon											
	Pelagloea											
	Phormidium											
	Rhaboderma					1						
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

P = present

TABLE 106
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70				
DIATOMS	Achnanthes	1										
	Amphiprora											
	Amphora											
	Asterionella											
	Attheya											
	Cyclotella	1	2		3	20	5	2				
	Cymbella				3							
	Diatoma											
	Epithemia											
	Eunotia		3		2							
	Fragilaria						7					
	Melosira											
	Navicula						3					
	Nitzschia		5					10				
	Pinnularia											
	Rhizosolenia	2										
	Stauroneis											
	Surirella											
	Stephanodiscus											
	Synedra	13	4	3	7	3		4				
	Tabellaria			50		4						

Units are given in Areal Standard Units per millilitre

TABLE 107
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70				
FLAGELLATES	Carteria											
	Ceratium	21	55	41	10	205	24	5				
	Chlamydomonas											
	Chlorogonium											
	Cryptomonas	44	6	42	9	68	140	123				
	Dinobryon	62		11	67	101	61	25				
	Euglena											
	Mallomonas											
	Ochromonas			4			22	4				
	Phacus											
	Peridinium				7	13						
	Rhodomonas	1						1				
	Synura							1				
	Trachelomonas			6			2					

Units are given in Areal Standard Units per millilitre

TABLE 108
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70				
GREEN	Actinastrum	31	21	9	9	9		9				
	Ankistrodesmus	2					8					
	Arthrodesmus	6				13	8					
	Botryococcus				3							
	Characium											
	Closterium											
	Coelastrum	7	19									
	Cosmarium	3										
	Crucigenia	10	41	93	16	7	2	3				
	Dictyosphaerium											
	Elakatothrix											
	Gloeocystis											
	Golenkinia											
	Kirchneriella				3							
	Lagerheimia											
	Micractinium											
	Mougeotia											
	Nephrocytium											

Units are given in Areal Standard Units per millilitre

TABLE 108(cont'd)
PHYTOPLANKTON
WINISK RIVER BASIN
Shagamu Bog
Latitude 55°05'; Longitude 87°05'

GROUP	GENUS	June 26/70	July 18/70	July 27/70	Aug. 11/70	Sept. 7/70	Sept. 30/70	Oct. 11/70				
GREEN	Oedogonium											
	Oocystis	2	14	12	4	1						
	Ophiocytium											
	Pediastrum											
	Quadrigula			16	3							
	Scenedesmus	16	30	10	11	5		5				
	Schroederia					1						
	Selenastrum			2	2	1	1					
	Sphaerocystis											
	Spondylosium			2	9	2						
	Staurastrum	1		27				3				
	Tetraëdron											
	Treubaria				3	2	1					
	Ulothrix											

Units are given in Areal Standard Units per millilitre

TABLE 109
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake
Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
BLUE GREEN	Anabaena		1	2	12	34	47	77	29	11	13	
	Aphanizomenon	17					20	138	127	176	72	
	Aphanocapsa		5					38	32			
	Aphanothece	86		379		105	108	121	118	89		
	Chroococcus			25	10	4	1	1	5		1	
	Coelosphaerium											
	Dactylococcopsis											
	Gloeocapsa											
	Gloeotheca											
	Gomphosphaeria											
	Lyngbya			10	11	19	63	16	77	109	24	
	Marssoniella					9	16			10	1	
	Merismopedia			4								
	Microcystis			15								
	Nostoc											
	Oscillatoria		1	8	46	2	26		5	70	25	
	Pelodictyon											
	Pelagloea											
	Phormidium											
	Rhaboderma											
	Tetrapedia											

Units are given in Areal Standard Units per millilitre

TABLE 110
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
DIATOMS	Achnanthes	23				P						
	Amphiprora											
	Amphora		61	77	35	79	58	80	195	164	95	
	Asterionella											
	Attheya											
	Cyclotella	7	13	28	19	2	8	1	13	12	12	
	Cymbella											
	Diatoma	4	3									
	Epithemia											
	Eunotia											
	Fragilaria		19	38		90	92	230			63	
	Melosira	69	177	171	103	63	32	355	163	82	228	
	Navicula	P			2	7			14			
	Nitzschia	13	1	5	2	16			3	9	7	
	Pinnularia											
	Rhizosolenia	15	21	53				9	52	231	96	
	Stauroneis											
	Surirella											
	Stephanodiscus	6		22								
	Synedra	110	43	25	53	26	3	22	157	73	6	
	Tabellaria	5	71	120	163	217	161	670	36	4	14	
											59	

Units are given in Areal Standard Units per millilitre

P = present

TABLE 111
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70		
FLAGELLATES	Carteria												
	Ceratium												
	Chlamydomonas	14	16	26	18	1	2	28	31	10	8		
	Chlorogonium												
	Cryptomonas	20	32	45	26	2		64	14	14	14		
	Dinobryon	26	8	8	4			5		2	3		
	Euglena												
	Mallomonas												
	Ochromonas												
	Phacus												
	Peridinium												
	Rhodomonas									25	7		
	Synura												
	Trachelomonas												

Units are given in Areal Standard Units per millilitre

TABLE 112
PHYTOPLANKTON
WINISK RIVER BASIN
Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Actinastrum											
	Ankistrodesmus	2	1	10	5	5	8			8	10	
	Arthrodesmus						5					
	Botryococcus									4	3	
	Characium									2		
	Closterium											
	Coelastrum											
	Cosmarium											
	Crucigenia	1		3		P	P		1	P	4	
	Dictyosphaerium					1			24			
	Elakatothrix											
	Gloeocystis											
	Golenkinia											
	Kirchneriella											
	Lagerheimia						P					
	Micractinium											
	Mougeotia											
	Nephrocystium						5					

Units are given in Areal Standard Units per millilitre

P = present

TABLE 112 (cont'd)
 PHYTOPLANKTON
 WINISK RIVER BASIN
 Wunnummin Lake Latitude 52°55'; Longitude 89°15'

GROUP	GENUS	June 21/70	June 29/70	July 20/70	July 31/70	Aug. 7/70	Aug. 13/70	Sept. 2/70	Sept. 13/70	Sept. 25/70	Oct. 6/70	
GREEN	Oedogonium						5					
	Oocystis		1			4						
	Ophiocytium					P						
	Pediastrum					10						
	Quadrigula											
	Scenedesmus											
	Schroederia	1	1	2	3	5					4	
	Selenastrum											
	Sphaerocystis											
	Spondylosium			3								
	Staurastrum											
	Tetraëdron											
	Treubaria	1	P									
	Ulothrix											

Units are given in Areal Standard Units per millilitre

P = present

